

BUDGET 2012 *Ottawa*



Draft Operating and Capital Budget

Rate Supported Programs

Tabled January 31, 2012

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In Thousands (\$000)

Operating Resource Requirement	2010	2011		2012	\$ Change Over 2011 Budget
	Actual	Actual	Budget	Budget	
Expenditures by Type					
Salaries, Wages & Benefits	43,251	45,170	51,317	51,711	394
Overtime	2,230	2,585	2,271	2,318	47
Material & Services	37,385	39,933	42,477	44,105	1,628
Transfers/Grants/Financial Charges	110,707	125,470	125,549	135,844	10,295
Fleet Costs	4,315	4,562	5,154	5,432	278
Program Facility Costs	180	-	-	-	-
Other Internal Costs	48,800	48,048	47,621	48,658	1,037
Service Ottawa	-	-	(2,070)	(2,185)	(115)
Gross Expenditure	246,868	265,768	272,319	285,883	13,564
Recoveries & Allocations	(8,047)	(8,681)	(7,894)	(7,924)	(30)
Net Expenditure	238,821	257,087	264,425	277,959	13,534
Revenues By Type					
Federal	-	-	-	-	-
Provincial	(215)	(207)	(145)	(145)	-
Municipal	-	-	-	-	-
Own Funds	(1,805)	(2,349)	(845)	(845)	-
Fees and Services	(250,903)	(260,390)	(263,435)	(276,969)	(13,534)
Fines	-	-	-	-	-
Other	-	-	-	-	-
Total Revenue	(252,923)	(262,946)	(264,425)	(277,959)	(13,534)

City of Ottawa
Drinking Water & Wastewater - Summary of Full Time Equivalents

Full Time Equivalents	2011	2011	2012	2012	2012
	Revised	Service Ottawa		Adjustments	Budget
By Department					
Drinking Water Services	376.30	(5.00)	-	-	371.30
Sanitary Services	220.95	(3.00)	-	-	217.95
Stormwater Services	53.00	(1.00)	-	-	52.00
Total Wastewater Services	273.95	(4.00)	-	-	269.95
Total Full Time Equivalents (FTE's)	650.25	(9.00)	-	-	641.25

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement

In Thousands (\$000)

Operating Resource Requirement	2010	2011		2012	\$ Change Over 2011 Budget
	Actual	Actual	Budget	Budget	
Expenditures by Program					
GM/Manager's Office	1,589	3,084	1,732	1,831	99
Water Production	20,080	19,209	21,498	21,810	312
Water Distribution	20,714	23,269	22,839	23,215	376
Water Quality	2,169	1,869	2,595	2,592	(3)
Water Share of Environmental Eng	2,391	3,240	3,680	3,893	213
Water Share of Business Services	3,622	4,059	4,551	4,511	(40)
Non Departmental	69,716	76,057	76,148	81,272	5,124
Service Ottawa	-	-	(481)	(558)	(77)
Gross Expenditure	120,281	130,787	132,562	138,566	6,004
Recoveries & Allocations	(4,493)	(4,813)	(4,086)	(4,086)	-
Revenue	(125,350)	(128,326)	(128,476)	(134,480)	(6,004)
Net Requirement	(9,562)	(2,352)	-	-	-
Expenditures by Type					
Salaries, Wages & Benefits	25,993	25,984	28,957	29,410	453
Overtime	1,500	1,770	1,527	1,557	30
Material & Services	15,297	17,976	17,291	17,639	348
Transfers/Grants/Financial Charges	57,273	63,614	63,603	68,508	4,905
Fleet Costs	3,062	3,279	3,581	3,766	185
Program Facility Costs	180	-	-	-	-
Other Internal Costs	16,976	18,164	18,084	18,244	160
Service Ottawa	-	-	(481)	(558)	(77)
Gross Expenditures	120,281	130,787	132,562	138,566	6,004
Recoveries & Allocations	(4,493)	(4,813)	(4,086)	(4,086)	-
Net Expenditure	115,788	125,974	128,476	134,480	6,004
Revenues By Type					
Federal	-	-	-	-	-
Provincial	-	-	-	-	-
Municipal	-	-	-	-	-
Own Funds	(576)	(2,093)	(589)	(589)	-
Fees and Services	(124,774)	(126,233)	(127,887)	(133,891)	(6,004)
Fines	-	-	-	-	-
Other	-	-	-	-	-
Total Revenue	(125,350)	(128,326)	(128,476)	(134,480)	(6,004)
Net Requirement	(9,562)	(2,352)	-	-	-
Full Time Equivalents			376.30	371.30	5.00

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement Analysis

In Thousands (\$000)

Operating Resource Requirement Analysis	2011 Baseline			2012 Adjustments						2012	\$ Change Over '11 Budget
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	Council Priorities	Service Ottawa	User Fees & Revenues	Budget	
Expenditures by Program											
GM/Manager's Office	3,084	1,732	(11)	110	-	-	-	-	-	1,831	99
Water Production	19,209	21,498	(361)	673	-	-	-	-	-	21,810	312
Water Distribution	23,269	22,839	(205)	566	-	15	-	-	-	23,215	376
Water Quality	1,869	2,595	(59)	56	-	-	-	-	-	2,592	(3)
Water Share of Environmental Eng	3,240	3,680	(204)	417	-	-	-	-	-	3,893	213
Water Share of Business Services	4,059	4,551	(170)	130	-	-	-	-	-	4,511	(40)
Non Departmental	76,057	76,148		5,124	-	-	-	-	-	81,272	5,124
Service Ottawa	-	(481)	-	-	-	-	-	(77)	-	(558)	(77)
Gross Expenditure	130,787	132,562	(1,010)	7,076	-	15	-	(77)	-	138,566	6,004
Recoveries & Allocations	(4,813)	(4,086)	-	-	-	-	-	-	-	(4,086)	-
Revenue	(128,326)	(128,476)	681	-	-	(347)	-	-	(6,338)	(134,480)	(6,004)
Net Requirement	(2,352)	-	(329)	7,076	-	(332)	-	(77)	(6,338)	-	-
Expenditures by Type											
Salaries, Wages & Benefits	25,984	28,957	(941)	1,394	-	-	-	-	-	29,410	453
Overtime	1,770	1,527	-	30	-	-	-	-	-	1,557	30
Material & Services	17,976	17,291	-	348	-	-	-	-	-	17,639	348
Transfers/Grants/Financial Charges	63,614	63,603	131	4,774	-	-	-	-	-	68,508	4,905
Fleet Costs	3,279	3,581	-	170	-	15	-	-	-	3,766	185
Program Facility Costs	-	-	-	-	-	-	-	-	-	-	-
Other Internal Costs	18,164	18,084	(200)	360	-	-	-	-	-	18,244	160
Service Ottawa	-	(481)	-	-	-	-	-	(77)	-	(558)	(77)
Gross Expenditures	130,787	132,562	(1,010)	7,076	-	15	-	(77)	-	138,566	6,004
Recoveries & Allocations	(4,813)	(4,086)	-	-	-	-	-	-	-	(4,086)	-
Net Expenditure	125,974	128,476	(1,010)	7,076	-	15	-	(77)	-	134,480	6,004
Percent of 2011 Net Expenditure Budget			-0.8%	5.5%	0.0%	0.0%	0.0%	-0.1%	0.0%	4.7%	
Revenues By Type											
Federal	-	-	-	-	-	-	-	-	-	-	-
Provincial	-	-	-	-	-	-	-	-	-	-	-
Municipal	-	-	-	-	-	-	-	-	-	-	-
Own Funds	(2,093)	(589)	-	-	-	-	-	-	-	(589)	-
Fees and Services	(126,233)	(127,887)	681	-	-	(347)	-	-	(6,338)	(133,891)	(6,004)
Fines	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	(128,326)	(128,476)	681	-	-	(347)	-	-	(6,338)	(134,480)	(6,004)
Percent of 2011 Revenue Budget			-0.5%	0.0%	0.0%	0.3%	0.0%	0.0%	4.9%	4.7%	
Net Requirement	(2,352)	-	(329)	7,076	-	(332)	-	(77)	(6,338)	-	-
Percent of 2011 Net Requirement Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Full Time Equivalents (FTE's)		376.30	(5.00)	-	-	-	-	-	-	371.30	(5.00)
Percent of 2011 FTE's			-1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.3%	

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2012 Draft

2011 Actual vs. Budget Variance Explanation	Surplus / (Deficit)		
	Exp.	Rev.	Net
Actual vs. Budget Variance Explanation			
Operations			
Surplus in Compensation mainly due to vacancies	2,662	-	2,662
Costs In the GM's Office associated with the South Ottawa Water Ban, offset by a one-time transfer from the Water Reserve Fund	(1,504)	1,504	-
Surplus in materials and services mainly in Water Distribution due to savings in the Roadway Re-instatement contracts and in Water Production due to the mild weather conditions	509	-	509
Deficit in Payments in Lieu of Taxes due to change in assessment values	(132)	-	(132)
Surplus in Fleet costs	303	-	303
Surplus in recoveries due to increased volume of work recovered from Capital and from other Branches/Departments	727	-	727
Surplus in secondary costs mainly due to savings in sewer costs due to lower volumes of water purification plant waste discharged to Ropec	164	-	164
Unachieved efficiency target to be found in 2012	(481)	-	(481)
Surplus in operating revenues due to increased volume of cost recovery work	-	413	413
Various other miscellaneous savings	163	-	163
Total Operations	2,411	1,917	4,328
Non Departmental			
Deficit in water revenues mainly due to reduced water volume consumed	-	(2,416)	(2,416)
Surplus in Fire Supply Revenues	-	349	349
Savings mainly due to lower than anticipated debt servicing costs	91	-	91
			-
Total Surplus / (Deficit)	2,502	(150)	2,352

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2011 Baseline Adjustments / Explanations	Increase / (Decrease)			
	Exp.	Rev.	Net 2011 Changes	FTE Impact
Adjustments to Base Budget				
Increase in Payments in Lieu of Taxes due to changes in assessment values of water facilities	131	-	131	-
Increase in Vacancy Allowance to 3% as per the Corporate Policy	(441)		(441)	-
Temporary Gapping provision to reflect vacancies as of January 1st 2012	(500)		(500)	-
Increase in Cost Recovery Revenues due to larger volume of work performed for external clients	-	(250)	(250)	-
Decrease in internal charges from Wastewater Services due to reduced volumes of water purification plant waste discharged to Ropec	(200)	-	(200)	-
FTE reduction to be achieved from 2011 Service Ottawa Initiatives			-	(5.00)
			-	-
Non-Departmental				
Decrease in Water revenues due to impact of reduction in volume of water billed in 2011	-	931	931	-
Total Adjustments to Base Budget	(1,010)	681	(329)	(5.00)

2012 Pressure Category / Explanation	Increase / (Decrease)			
	Exp.	Rev.	Net 2012 Changes	FTE Impact
Maintain Services				
All programs include an adjustment for 2012 contract settlements, increments and benefit adjustments	1,271	-	1,271	-
Annualization of half year costs for new FTE's approved in 2011	153	-	153	-
Increase in Fleet costs due to inflation on fuel and maintenance	170	-	170	-
Inflationary increases to hydro, chemicals and gases	98	-	98	-
Inflationary increases to contracted services	157	-	157	-
Increase to self insurance costs	10	-	10	-
Increase communication costs as a result of installation of fibre optic networks	93	-	93	-
Non-Departmental				
Increase to the Administrative Cost Recovery due to collective bargaining and inflation increases in support services	350	-	350	-
Increase in Debt Servicing costs	1,831	-	1,831	-
Increase in Water capital contribution	2,943	-	2,943	-
Total Maintain Services	7,076	-	7,076	-

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2012 Pressure Category / Explanation	Increase / (Decrease)			
	Exp.	Rev.	Net 2012 Changes	FTE Impact
Growth				
Fleet operating costs for a new van for the Water Production group	15		15	
Non-Departmental				
Increase in Water Fire Supply Revenues due to system growth	-	(347)	(347)	-
Total Growth	15	(347)	(332)	-
Service Ottawa				
Allocation of Service Innovation & Efficiency Initiative	(22)	-	(22)	-
Savings from Departmental Service Innovation & Efficiency - SE - Transform Municipal Fleet	(55)	-	(55)	-
Total Service Ottawa	(77)	-	(77)	-
User Fees & Revenues				
See following user fee schedule for details on the specific rates.	-	(6,338)	(6,338)	-
	-	-	-	-
Total User Fees & Revenues	-	(6,338)	(6,338)	-
Total Budget Changes	6,004	(6,004)	-	(5.00)

**City of Ottawa
Environmental Services Department
Drinking Water Services - User Fees**

2012 Draft

User Fees	2010 Rate	2011 Rate	2012 Rate	% Change Over		Effective Date	2012 Revenue
	\$	\$	\$	2011	2010	DD-MMM-YY	(\$000)
Drinking Water Services							
Distribution of Drinking Water							
1. Water Services Connection						01-May-12	
Size of Service Pipe							
20 mm on DI or CI	551.00	573.00	584.00	1.9%	6.0%		
20 mm on PVC	698.00	726.00	741.00	2.1%	6.2%		
20 mm others - Cost plus 15%, hourly	153.00	159.00	162.00	1.9%	5.9%		
20 to 50mm on concrete	1,529.00	1,590.00	1,622.00	2.0%	6.1%		
25 mm on DI or CI	612.00	636.00	649.00	2.0%	6.0%		
25 mm on PVC	752.00	782.00	798.00	2.0%	6.1%		
25 mm others - Cost plus 15%, hourly	153.00	159.00	162.00	1.9%	5.9%		
40 mm on DI or CI	945.00	983.00	1,003.00	2.0%	6.1%		
40 mm on PVC	1,017.00	1,058.00	1,079.00	2.0%	6.1%		
40 mm others - Cost plus 15%, hourly	153.00	159.00	162.00	1.9%	5.9%		
50 mm on DI or CI	1,243.00	1,293.00	1,319.00	2.0%	6.1%		
50 mm on PVC	1,336.00	1,389.00	1,417.00	2.0%	6.1%		
50 mm others - Cost plus 15%, hourly	153.00	159.00	162.00	1.9%	5.9%		
100 mm	3,778.00	3,929.00	4,008.00	2.0%	6.1%		
150 mm	4,025.00	4,186.00	4,270.00	2.0%	6.1%		
200 mm	5,072.00	5,275.00	5,381.00	2.0%	6.1%		
100 to 200mm on concrete - Cost plus 15%, hourly	153.00	159.00	162.00	1.9%	5.9%		
Larger than 200 mm - Cost plus 15%, hourly	153.00	159.00	162.00	1.9%	5.9%		
2. Services						01-May-12	
Thawing of Services							
- 20 mm and 25 mm (per thaw)	334.00	347.00	354.00	2.0%	6.0%		
- Other than 20mm, 25 mm - Cost plus 15%, hourly	167.00	174.00	177.00	1.7%	6.0%		
Hot Water Thawing of Services on private property (Hourly rate)	107.00	111.00	113.00	1.8%	5.6%		
- Materials	58.00	60.00	61.00	1.7%	5.2%		
Thawing Hydrants (per hydrant)	120.00	125.00	128.00	2.4%	6.7%		
Fire Flow Test	202.00	210.00	214.00	1.9%	5.9%		

**City of Ottawa
Environmental Services Department
Drinking Water Services - User Fees**

2012 Draft

User Fees	2010 Rate	2011 Rate	2012 Rate	% Change Over		Effective Date	2012 Revenue
	\$	\$	\$	2011	2010	DD-MMM-YY	(\$000)
3. Service Charges						01-May-12	
Turn off water services for non payment or turn on following receipt of payment (per operation)	78.00	81.00	83.00	2.5%	6.4%		
Turn off or on of water services (per operation)	78.00	81.00	83.00	2.5%	6.4%		
Permit for Flusher Hydrant Usage	265.00	276.00	282.00	2.2%	6.4%		
Inspection for New Water Meters	78.00	81.00	83.00	2.5%	6.4%		
Service Call on Internal Plumbing	159.00	165.00	168.00	1.8%	5.7%		
Service Post Adjustment	132.00	137.00	140.00	2.2%	6.1%		
4. New/Replacement Water Meters (installation cost included)						01-May-12	
Size of Service Pipe							
15 x 20 mm Pos. Disp.	302.00	314.00	320.00	1.9%	6.0%		
15 x 20 mm Pos. Disp.(Carlsbad only)	496.00	516.00	526.00	1.9%	6.0%		
20 mm Pos. Disp.	350.00	364.00	371.00	1.9%	6.0%		
25 mm Pos. Disp.	402.00	418.00	426.00	1.9%	6.0%		
40 mm Pos. Disp.	804.00	836.00	853.00	2.0%	6.1%		
50 mm Pos. Disp.	899.00	935.00	954.00	2.0%	6.1%		
50 mm Turbine	1,595.00	1,659.00	1,692.00	2.0%	6.1%		
50 mm Compound	2,616.00	2,721.00	2,775.00	2.0%	6.1%		
75 mm Turbine	2,550.00	2,652.00	2,705.00	2.0%	6.1%		
75 mm Compound	3,953.00	4,111.00	4,193.00	2.0%	6.1%		
100 mm Turbine	3,818.00	3,971.00	4,050.00	2.0%	6.1%		
100 mm Compound	5,372.00	5,587.00	5,699.00	2.0%	6.1%		
150 mm Turbine	5,830.00	6,063.00	6,184.00	2.0%	6.1%		
150 mm Compound	8,614.00	8,959.00	9,138.00	2.0%	6.1%		
100 x 50 mm Fire Assembly - Cost plus 15%, hourly	229.00	238.00	243.00	2.1%	6.1%		
150 x 50 mm Fire Assembly - Cost plus 15%, hourly	229.00	238.00	243.00	2.1%	6.1%		
200 x 50 mm Fire Assembly - Cost plus 15%, hourly	229.00	238.00	243.00	2.1%	6.1%		
Additional Revenues from Inflationary increase to rates in 1, 2, 3 and 4 above							(9)
5. Non Departmental							
Distribution of Drinking Water							
Per cubic metre rate of drinking water on water bill (based on approx. 88.3M m3 of water billed)	1.276	1.320	1.400	6.0%	9.7%	01-May-12	(6,116)

**City of Ottawa
Environmental Services Department
Drinking Water Services - User Fees**

User Fees	2010 Rate	2011 Rate	2012 Rate	% Change Over		Effective Date DD-MMM-YY	2012 Revenue (\$000)
	\$	\$	\$	2011	2010		
Fire Supply Charge							
Annual cost per meter size (increase based on Construction Price Index)							
15 mm meter	31.71	31.71	32.95	3.9%	3.9%	01-May-12	(213)
20 mm meter	56.38	56.38	58.58	3.9%	3.9%		
25 mm meter	88.09	88.09	91.53	3.9%	3.9%		
40 mm meter	225.51	225.51	234.30	3.9%	3.9%		
50 mm meter	352.36	352.36	366.10	3.9%	3.9%		
75 mm meter	792.81	792.81	823.73	3.9%	3.9%		
100 mm meter	1,409.44	1,409.44	1,464.41	3.9%	3.9%		
150 mm meter	3,171.24	3,171.24	3,294.92	3.9%	3.9%		
200 mm meter	5,637.77	5,637.77	5,857.64	3.9%	3.9%		
250 mm meter	8,809.01	8,809.01	9,152.56	3.9%	3.9%		
Total Department							(6,338)

City of Ottawa
Environmental Services Department
Sanitary Services - Operating Resource Requirement
In Thousands (\$000)

Operating Resource Requirement	2010	2011		2012	\$ Change Over 2011 Budget
	Actual	Actual	Budget	Budget	
Expenditures by Program					
Manager's Office	2,393	1,299	1,602	1,627	25
Wastewater Collection	14,607	13,877	17,094	17,328	234
Wastewater Treatment	19,038	18,985	21,566	22,396	830
Operations Engineering	1,582	1,405	1,912	1,924	12
Waste Share of Env. Engineering	1,686	3,468	3,128	2,929	(199)
Wastewater Share of Business Services	1,743	1,793	2,052	2,089	37
Non Departmental	79,023	82,046	81,665	87,609	5,944
Service Ottawa	-	-	(1,435)	(1,473)	(38)
Gross Expenditure	120,072	122,873	127,584	134,429	6,845
Recoveries & Allocations	(1,532)	(1,771)	(1,947)	(1,747)	200
Revenue	(127,130)	(134,240)	(135,665)	(143,156)	(7,491)
Net Requirement	(8,590)	(13,138)	(10,028)	(10,474)	(446)
Expenditures by Type					
Salaries, Wages & Benefits	13,450	15,310	18,289	18,089	(200)
Overtime	693	789	694	709	15
Material & Services	20,184	19,954	22,892	23,923	1,031
Transfers/Grants/Financial Charges	53,434	61,850	61,946	67,336	5,390
Fleet Costs	1,039	1,072	1,294	1,377	83
Program Facility Costs	-	-	-	-	-
Other Internal Costs	31,272	23,898	23,904	24,468	564
Service Ottawa	-	-	(1,435)	(1,473)	(38)
Gross Expenditures	120,072	122,873	127,584	134,429	6,845
Recoveries & Allocations	(1,532)	(1,771)	(1,947)	(1,747)	200
Net Expenditure	118,540	121,102	125,637	132,682	7,045
Revenues By Type					
Federal	-	-	-	-	-
Provincial	-	-	-	-	-
Municipal	-	-	-	-	-
Own Funds	(1,229)	(256)	(256)	(256)	-
Fees and Services	(125,901)	(133,984)	(135,409)	(142,900)	(7,491)
Fines	-	-	-	-	-
Other	-	-	-	-	-
Total Revenue	(127,130)	(134,240)	(135,665)	(143,156)	(7,491)
Net Requirement	(8,590)	(13,138)	(10,028)	(10,474)	(446)
Full Time Equivalents			220.95	217.95	- 3.00

City of Ottawa
Environmental Services
Sanitary Services - Operating Resource Requirement Analysis

2012 Draft

In Thousands (\$000)

Operating Resource Requirement Analysis	2011 Baseline			2012 Adjustments						2012	\$ Change Over '11 Budget
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	Council Priorities	Service Ottawa	User Fees & Revenues	Budget	
Expenditures by Program											
GM/Manager's Office	1,299	1,602	(4)	29	-	-	-	-	-	1,627	25
Wastewater Collection	13,877	17,094	(240)	474	-	-	-	-	-	17,328	234
Wastewater Treatment	18,985	21,566	(190)	1,020	-	-	-	-	-	22,396	830
Operations Engineering	1,405	1,912	(35)	47	-	-	-	-	-	1,924	12
Wastewater Share of Env. Engineering	3,468	3,128	(156)	(43)	-	-	-	-	-	2,929	(199)
Wastewater Share of Business Services	1,793	2,052	(53)	90	-	-	-	-	-	2,089	37
Non Departmental	82,046	81,665	-	5,944	-	-	-	-	-	87,609	5,944
Service Ottawa	-	(1,435)	-	-	-	-	-	(38)	-	(1,473)	(38)
Gross Expenditure	122,873	127,584	(678)	7,561	-	-	-	(38)	-	134,429	6,845
Recoveries & Allocations	(1,771)	(1,947)	200	-	-	-	-	-	-	(1,747)	200
Revenue	(134,240)	(135,665)	(474)	-	-	-	-	-	(7,017)	(143,156)	(7,491)
Net Requirement	(13,138)	(10,028)	(952)	7,561	-	-	-	(38)	(7,017)	(10,474)	(446)
Expenditures by Type											
Salaries, Wages & Benefits	15,310	18,289	(678)	478	-	-	-	-	-	18,089	(200)
Overtime	789	694	-	15	-	-	-	-	-	709	15
Material & Services	19,954	22,892	-	1,031	-	-	-	-	-	23,923	1,031
Transfers/Grants/Financial Charges	61,850	61,946	-	5,390	-	-	-	-	-	67,336	5,390
Fleet Costs	1,072	1,294	-	83	-	-	-	-	-	1,377	83
Program Facility Costs	-	-	-	-	-	-	-	-	-	-	-
Other Internal Costs	23,898	23,904	-	564	-	-	-	-	-	24,468	564
Service Ottawa	-	(1,435)	-	-	-	-	-	(38)	-	(1,473)	(38)
Gross Expenditures	122,873	127,584	(678)	7,561	-	-	-	(38)	-	134,429	6,845
Recoveries & Allocations	(1,771)	(1,947)	200	-	-	-	-	-	-	(1,747)	200
Net Expenditure	121,102	125,637	(478)	7,561	-	-	-	(38)	-	132,682	7,045
Percent of 2011 Net Expenditure Budget			-0.4%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%	
Revenues By Type											
Federal	-	-	-	-	-	-	-	-	-	-	-
Provincial	-	-	-	-	-	-	-	-	-	-	-
Municipal	-	-	-	-	-	-	-	-	-	-	-
Own Funds	(256)	(256)	-	-	-	-	-	-	-	(256)	-
Fees and Services	(133,984)	(135,409)	(474)	-	-	-	-	-	(7,017)	(142,900)	(7,491)
Fines	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	(134,240)	(135,665)	(474)	-	-	-	-	-	(7,017)	(143,156)	(7,491)
Percent of 2011 Revenue Budget			0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	5.2%	5.5%	
Net Requirement	(13,138)	(10,028)	(952)	7,561	-	-	-	(38)	(7,017)	(10,474)	(446)
Percent of 2011 Net Requirement Budget			9.5%	-75.4%	0.0%	0.0%	0.0%	0.4%	70.0%	4.4%	
Full Time Equivalents (FTE's)		220.95	(3.00)	-	-	-	-	-	-	217.95	-3.00
Percent of 2011 FTE's			-1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.4%	

City of Ottawa
Environmental Services
Sanitary Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2012 Draft

2011 Actual vs. Budget Variance Explanation	Surplus / (Deficit)		
	Exp.	Rev.	Net
Actual vs. Budget Variance Explanation			
Operations			
Surplus in Compensation mainly due to vacancies	3,259	-	3,259
Surplus in Materials and Services mainly in Wastewater Collection and Treatment due to delays in implementation of annual maintenance programs	2,966	-	2,966
Deficit in Recoveries mainly from Drinking Water Services due to reduced water purification plant discharged to Ropec	(176)	-	(176)
Surplus in Fleet costs	222	-	222
Various other miscellaneous surpluses	80		80
Unachieved efficiencies to be found in 2012	(1,436)	-	(1,436)
Surplus in liquid hauled waste revenues due to increased volumes received at Ropec		563	563
Total Operations	4,915	563	5,478
Non Departmental			
Deficit due to unanticipated external transfers	(440)	-	(440)
Savings in debt servicing costs	60		60
Deficit in Revenues mainly due to reduced sewer surcharge revenues as a result of the decrease in water Revenues	-	(1,988)	(1,988)
Total Surplus / (Deficit)	4,535	(1,425)	3,110

City of Ottawa
Environmental Services
Sanitary Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2012 Draft

2011 Baseline Adjustments / Explanations	Increase / (Decrease)			FTE Impact
	Exp.	Rev.	Net 2011 Changes	
Adjustments to Base Budget				
Increase in hauled waste revenues due to increased volumes of liquid waste received at Ropec	-	(500)	(500)	-
Decrease in recoveries from Water due to reduced volumes of purification plant waste discharged at Ropec	200	-	200	-
Increase Vacancy Allowance provision to 3% as per Corporate policy	(253)	-	(253)	-
Temporary Gapping provision to reflect vacancies as of January 1st 2012	(425)		(425)	-
FTE reduction to be achieved from 2011 Service Ottawa Initiatives				(3.00)
Non-Departmental				
Increase in Sewer Surcharge revenues due to annualization of sewer surcharge increase from 116% to 117% effective May 1/11	-	(1,036)	(1,036)	-
Decrease in Sewer Surcharge revenues due to the reduction in water revenues as a result of reduced volume of water billed.	-	1,062	1,062	-
Total Adjustments to Base Budget	(478)	(474)	(952)	(3.00)

City of Ottawa
Environmental Services
Sanitary Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2012 Draft

2012 Pressure Category / Explanation	Increase / (Decrease)			FTE Impact
	Exp.	Rev.	Net 2012 Changes	
Maintain Services				
All programs include an adjustment for 2011 contract settlements, increments and benefit adjustments	453	-	453	-
Inflationary increase for hydro, water and heating fuels	276	-	276	-
Inflationary increase on various other materials and services	352	-	352	-
Requirement for chemicals for new dechlorination process and for polymer in biosolids processing	403	-	403	-
Annualization of half year compensation costs for new FTE approved in 2011	40	-	40	-
Increase in self insurance costs	10	-	10	-
Inflation on Fleet costs for fuel and maintenance	83	-	83	-
Non-Departmental				
Increase to the Administrative Cost Recovery due to collective bargaining and inflation increases in support services	554	-	554	-
Increase in Debt Servicing costs	1,923	-	1,923	-
Increase in Wastewater capital contribution	3,467	-	3,467	-
Total Maintain Services	7,561	-	7,561	-
Service Ottawa				
Allocation of Service Innovation & Efficiency Initiative	(20)	-	(20)	-
Savings from Departmental Service Innovation & Efficiency - SE - Transform Municipal Fleet	(18)	-	(18)	-
Total Service Ottawa	(38)	-	(38)	-
User Fees & Revenues				
See following user fee schedule for details on the specific rates.	-	(7,017)	(7,017)	-
Total User Fees & Revenues	-	(7,017)	(7,017)	-
Total Budget Changes	7,045	(7,491)	(446)	(3.00)

User Fees	2010 Rate	2011 Rate	2012 Rate	% Change Over		Effective Date	2012 Revenue
	\$	\$	\$	2011	2010	DD-MMM-YY	(\$000)
Wastewater Services							
<u>Sanitary and Storm Sewer Systems</u>							
Sewer Use Program - Disposal Fees						01-May-12	
Septic Tank Strength Liquid Material (per cubic meter, as approved in Hauled Liquid Waste Strategy Report)	11.76	14.31	14.60	2.0%	24.12%		
Holding Tank Strength Liquid Material (per cubic metre, as approved in Hauled Liquid Waste Strategy Report)	2.95	3.07	3.13	2.0%	6.08%		
Liquid Material Generated Outside the City of Ottawa (per cubic metre, inflationary increase of 2%)	23.98	24.94	25.44	2.0%	6.08%		
Sewer Use Program - Permit Fees						01-May-12	
Annual Permit Fee	229.00	238.00	243.00	2.1%	6.1%		
Annual Permit Revision Fee	128.00	133.00	136.00	2.3%	6.3%		
Sewer Use Program - Discharge Fees						01-May-12	
Parameters in Sewage							
Biochemical Oxygen Demand (per kg)	1.36	1.41	1.44	2.0%	6.1%		
Suspended Solids (per kg)	0.72	0.75	0.77	2.0%	6.1%		
Phenolic Compounds (per kg)	1.36	1.41	1.44	2.0%	6.1%		
Kjeldahl Nitrogen (per kg)	5.42	5.63	5.75	2.0%	6.1%		
Phosphorus (per kg)	2.18	2.27	2.31	2.0%	6.1%		
Fees for discharges of sewage containing water from a source separate from the City's water distribution system (for each cubic meter or part thereof)	0.63	0.65	0.66	2.0%	6.1%		
Sewer Use Program - Administrative Fees						01-May-12	
Special Discharge Agreement Fee	890.00	926.00	945.00	2.1%	6.2%		
Sanitary Sewer Agreement Fee	635.00	660.00	673.00	2.0%	6.0%		
Compliance Program Fee	890.00	926.00	945.00	2.1%	6.2%		
Sanitary Sewer Agreement Revision Fee (per revision)	96.00	100.00	102.00	2.0%	6.3%		
Compliance Program Revision Fee (per revision)	192.00	200.00	204.00	2.0%	6.3%		
CPI Inflationary increase to Permit, Discharge & Admin Fees							(40)
Total Operational Wastewater Services							
Non Departmental							
Sewer Surcharge for Sanitary and Storm Sewer Systems							
For each owner or occupant receiving water supply service:	116%	117%	117%	0.0%	0.9%	01-May-12	(6,977)
Total Proposed Increases							(7,017)

City of Ottawa
Environmental Services Department
Stormwater Services - Operating Resource Requirement
In Thousands (\$000)

2012 Draft

Operating Resource Requirement	2010	2011		2012	\$ Change Over 2011 Budget
	Actual	Actual	Budget	Budget	
<u>Expenditures by Program</u>					
Manager's Office	230	219	286	398	112
Water Environment Protection	1,852	1,913	1,960	1,974	14
Stormwater & Municipal Drainage	2,259	2,460	2,834	2,869	35
Laboratory Services	2,174	2,040	2,062	2,307	245
Non Departmental	-	5,476	5,185	5,498	313
Service Ottawa	-	-	(154)	(158)	(4)
Gross Expenditure	6,515	12,108	12,173	12,888	715
Recoveries & Allocations	(2,022)	(2,097)	(1,861)	(2,091)	(230)
Revenue	(443)	(380)	(284)	(323)	(39)
Net Requirement	4,050	9,631	10,028	10,474	446
<u>Expenditures by Type</u>					
Salaries, Wages & Benefits	3,808	3,876	4,071	4,212	141
Overtime	37	26	50	52	2
Material & Services	1,904	2,003	2,294	2,543	249
Transfers/Grants/Financial Charges	-	6	-	-	-
Fleet Costs	214	211	279	289	10
Program Facility Costs	-	-	-	-	-
Other Internal Costs	552	5,986	5,633	5,946	313
Service Ottawa	-	-	(154)	(154)	-
Gross Expenditures	6,515	12,108	12,173	12,888	715
Recoveries & Allocations	(2,022)	(2,097)	(1,861)	(2,091)	(230)
Net Expenditure	4,493	10,011	10,312	10,797	485
<u>Revenues By Type</u>					
Federal	-	-	-	-	-
Provincial	(215)	(207)	(145)	(145)	-
Municipal	-	-	-	-	-
Own Funds	-	-	-	-	-
Fees and Services	(228)	(173)	(139)	(178)	(39)
Fines	-	-	-	-	-
Other	-	-	-	-	-
Total Revenue	(443)	(380)	(284)	(323)	(39)
Net Requirement	4,050	9,631	10,028	10,474	446
<u>Full Time Equivalents</u>			53.00	52.00	- 1.00

**City of Ottawa
Environmental Services
Stormwater Services - Operating Resource Requirement Analysis**

2012 Draft

In Thousands (\$000)

Operating Resource Requirement Analysis	2011 Baseline			2012 Adjustments						2012	\$ Change Over '11 Budget
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	Council Priorities	Service Ottawa	User Fees & Revenue	Budget	
Expenditures by Program											
Manager's Office	219	286	(6)	118	-	-	-	-	-	398	112
Water Environment Protection	1,913	1,960	(15)	29	-	-	-	-	-	1,974	14
Stormwater & Municipal Drainage	2,460	2,834	(25)	60	-	-	-	-	-	2,869	35
Laboratory Services	2,040	2,062	216	29	-	-	-	-	-	2,307	245
Non Departmental	5,476	5,185	-	313	-	-	-	-	-	5,498	313
Service Ottawa	-	(154)	-	-	-	-	-	(4)	-	(158)	(4)
Gross Expenditure	12,108	12,173	170	549	-	-	-	(4)	-	12,888	715
Recoveries & Allocations	(2,097)	(1,861)	(230)	-	-	-	-	-	-	(2,091)	(230)
Revenue	(380)	(284)	-	-	-	-	-	-	(39)	(323)	(39)
Net Requirement	9,631	10,028	(60)	549	-	-	-	(4)	(39)	10,474	446
Expenditures by Type											
Salaries, Wages & Benefits	3,876	4,071	(60)	201	-	-	-	-	-	4,212	141
Overtime	26	50	-	2	-	-	-	-	-	52	2
Material & Services	2,003	2,294	230	19	-	-	-	-	-	2,543	249
Transfers/Grants/Financial Charges	6	-	-	-	-	-	-	-	-	-	-
Fleet Costs	211	279	-	14	-	-	-	(4)	-	289	10
Program Facility Costs	-	-	-	-	-	-	-	-	-	-	-
Other Internal Costs	5,986	5,633	-	313	-	-	-	-	-	5,946	313
Service Ottawa	-	(154)	-	-	-	-	-	-	-	(154)	-
Gross Expenditures	12,108	12,173	170	549	-	-	-	(4)	-	12,888	715
Recoveries & Allocations	(2,097)	(1,861)	(230)	-	-	-	-	-	-	(2,091)	(230)
Net Expenditure	10,011	10,312	(60)	549	-	-	-	(4)	-	10,797	485
Percent of 2011 Net Expenditure Budget			-0.6%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%	
Revenues By Type											
Federal	-	-	-	-	-	-	-	-	-	-	-
Provincial	(207)	(145)	-	-	-	-	-	-	-	(145)	-
Municipal	-	-	-	-	-	-	-	-	-	-	-
Own Funds	-	-	-	-	-	-	-	-	-	-	-
Fees and Services	(173)	(139)	-	-	-	-	-	-	(39)	(178)	(39)
Fines	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	(380)	(284)	-	-	-	-	-	-	(39)	(323)	(39)
Percent of 2011 Revenue Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.7%	13.7%	
Net Requirement	9,631	10,028	(60)	549	-	-	-	(4)	(39)	10,474	446
Percent of 2011 Net Requirement Budget			-0.6%	5.5%	0.0%	0.0%	0.0%	0.0%	-0.4%	4.4%	
Full Time Equivalents (FTE's)		53.00	(1.00)	-	-	-	-	-	-	52.00	-1.00
Percent of 2011 FTE's			-1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.9%	

City of Ottawa
Environmental Services
Stormwater Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2012 Draft

2011 Actual vs. Budget Variance Explanation	Surplus / (Deficit)		
	Exp.	Rev.	Net
Actual vs. Budget Variance Explanation			
Operations			
Savings in Compensation due to vacancies	219	-	219
Deficit in materials and services mainly due to increase in volume of lab testing requests	(74)	-	(74)
Surplus in Recoveries due to increase in volume of work performed for internal clients	236	-	236
Surplus in Fleet costs	68		68
Various other savings	297		297
Unachieved efficiency target to be found in 2012	(154)	-	(154)
Surplus in Revenues due to increase in volume of testing performed for external clients	-	96	96
	-	-	-
Total Operations	592	96	688
Non Departmental			
Deficit mainly due to increased costs and services provided by public Works for drainage and culvert maintenance	(291)	-	(291)
			-
Total Surplus / (Deficit)	301	96	397

2011 Baseline Adjustments / Explanations	Increase / (Decrease)			
	Exp.	Rev.	Net 2011 Changes	FTE Impact
Adjustments to Base Budget				
Increase in volume of testing performed by Laboratory Services	230		230	-
Increased recoveries from other Branches to offset increased testing costs	(230)	-	(230)	-
Increase Gapping Provision to 3% as per Corporate Policy	(60)	-	(60)	-
FTE reduction to be achieved from 2011 Service Ottawa Initiatives	-	-	-	(1.00)
Total Adjustments to Base Budget	(60)	-	(60)	(1.00)

2012 Pressure Category / Explanation	Increase / (Decrease)			FTE Impact
	Exp.	Rev.	Net 2012 Changes	
Maintain Services				
All programs include an adjustment for 2011 contract settlements, increments and benefit adjustments	203	-	203	-
Increase in Fleet costs due to inflation on fuel and maintenance	14	-	14	-
Inflationary increase to lab materials and services costs	19	-	19	-
			-	-
			-	-
Non-Departmental			-	-
Increase to the ditching and drainage maintenance costs from Public Works due to collective bargaining increases in those services	313		313	-
			-	-
Total Maintain Services	549	-	549	-
Service Ottawa				
Savings from Departmental Service Innovation & Efficiency - SE - Transform Municipal Fleet	(4)	-	(4)	-
			-	-
Total Service Ottawa	(4)	-	(4)	-
User Fees & Revenues				
See following user fee schedule for details on the specific rates.	-	(39)	(39)	-
			-	-
Total User Fees & Revenues	-	(39)	(39)	-
			-	-
Total Budget Changes	485	(39)	446	(1.00)

**City of Ottawa
Environmental Services
Stormwater Services - User Fees**

2012 Draft

User Fees	2010 Rate	2011 Rate	2012 Rate	% Change Over		Effective Date	2012 Revenue
	\$	\$	\$	2011	2010	DD-MMM-YY	(\$000)
Stormwater Services							
Laboratory Services (Tests)						01-May-12	
Alkalinity	8.87	9.22	9.41	2.0%	6.1%		
Alkalinity Brinkman (wastewater)	13.35	13.88	14.16	2.0%	6.1%		
Biochemical Oxygen	14.60	15.18	15.49	2.0%	6.1%		
Carbonaceous Biochem	14.60	15.18	15.49	2.0%	6.1%		
Chloride	14.32	14.89	15.19	2.0%	6.1%		
Chemical Oxygen Demand	9.49	9.87	10.07	2.0%	6.1%		
Conductivity	8.87	9.22	9.41	2.0%	6.1%		
Dissolved Organic Carbon	12.53	13.03	13.29	2.0%	6.1%		
E. coli (wastewater)	9.99	10.39	10.60	2.0%	6.1%		
Fluoride	14.32	14.89	15.19	2.0%	6.1%		
Specific gravity	18.47	19.21	19.59	2.0%	6.1%		
Heterotrophic Plate	10.61	11.03	11.26	2.0%	6.1%		
Halo Acetic Acid	114.03	118.59	120.96	2.0%	6.1%		
ICP Industrial Waste - 28 elements	22.56	23.46	23.93	2.0%	6.1%		
ICP Metals Scan - 5 elements	11.69	12.16	12.40	2.0%	6.1%		
ICP Metal Scan - 28 elements	19.56	20.34	20.74	2.0%	6.1%		
Ammonia - Surface/Waste Water	9.69	10.08	10.28	2.0%	6.1%		
Ion Chromatography	14.32	14.89	15.19	2.0%	6.1%		
Mercury	29.02	30.18	30.78	2.0%	6.1%		
Nitrates	14.32	14.89	15.19	2.0%	6.1%		
PH	8.87	9.22	9.41	2.0%	6.1%		
Reactive Phosphorus	9.69	10.08	10.28	2.0%	6.1%		
Soluble Biochemical	15.58	16.20	16.53	2.0%	6.1%		
Soluble Carbonaceous	15.58	16.20	16.53	2.0%	6.1%		
soluble Chemical Oxy	9.49	9.87	10.07	2.0%	6.1%		
Sulphate	14.32	14.89	15.19	2.0%	6.1%		
Soluble Phosphorus	13.03	13.55	13.82	2.0%	6.1%		
Soluble Kjeldahl Nitrog	13.03	13.55	13.82	2.0%	6.1%		
Total Coliforms - E-Coli (DC)	9.20	9.57	9.76	2.0%	6.1%		
Total Coliforms - E-Coli (PA)	17.32	18.01	18.37	2.0%	6.1%		
Total Coliforms - E-Coli (MPN)	18.06	18.78	19.16	2.0%	6.1%		
Total Kjeldahl Nitro	12.90	13.42	13.68	2.0%	6.1%		

**City of Ottawa
Environmental Services
Stormwater Services - User Fees**

2012 Draft

User Fees	2010 Rate	2011 Rate	2012 Rate	% Change Over		Effective Date	2012 Revenue
	\$	\$	\$	2011	2010	DD-MMM-YY	(\$000)
Total Phosphorus	12.90	13.42	13.68	2.0%	6.1%		
Total Solid - Waste Water	9.34	9.71	9.91	2.0%	6.1%		
Total Solid - Solid	9.34	9.71	9.91	2.0%	6.1%		
Total Suspended Solid	8.72	9.07	9.25	2.0%	6.1%		
Trihalomethane	52.77	54.88	55.98	2.0%	6.1%		
Volatile Acids	32.49	33.79	34.47	2.0%	6.1%		
Volatile Solids - Waste Water	9.94	10.34	10.54	2.0%	6.1%		
Volatile Solids - Solids	10.12	10.52	10.74	2.0%	6.1%		
Volatile Suspended Solid (Water)	10.07	10.47	10.68	2.0%	6.1%		
Drinking Water anion (Chloride, fluoride, ion chromatograph NO2 and NO3, sulphate)	14.32	14.89	15.19	2.0%	6.1%		
Standard Chemistry (Alkalinity, Conductivity, pH)	8.87	9.22	9.41	2.0%	6.1%		
Total Nutrients (Ammonia + Ammonia, Reactive Phosphorus)	9.69	10.08	10.28	2.0%	6.1%		
tkn/tp analysis (Total Kjeldahl Nitro, Total Phosphorus)	12.90	13.42	13.68	2.0%	6.1%		
Inflationary increase to rates for various lab tests listed above							(39)
Total Operational Stormwater Services							
Total Proposed Increases							(39)

City of Ottawa
Environment Committee (Rate Supported)
Capital Program Summary
In Thousands (\$000)

2012 Budget

Project Description	Tax Supported/ Dedicated	Rate Supported	Revenues	Development Charges	Debt	Grand Total
Drinking Water Services						
Renewal of City Assets						
901136 Hazeldean Watermain	-	4,830	-	1,669	1	6,500
901141 Orleans Transmission Main	-	622	-	128	-	750
903403 Britannia Filter Rebuild/Equip Upgrades	-	2,000	-	-	-	2,000
905681 Water System SCADA & Instrument Rehab	-	750	-	-	-	750
905741 Meter Lifecycle Replacement Program	-	2,500	-	-	-	2,500
905992 Manotick Supply Watermain	-	250	250	-	-	500
906324 Lifecycle Renewal Fleet - Water Services	1,159	141	-	-	-	1,300
906348 Service Posts Rehab. 2012	-	800	-	-	-	800
906349 Cathodic Protection Water System 2012	-	1,799	-	-	1	1,800
906350 Water Treatment Rehab. - 2012	-	5,899	-	-	1	5,900
906354 Water Pumping Stn Facility Rehab. 2012	-	1,299	-	-	1	1,300
906356 Water Distribution Sys Improvements 2012	-	2,099	-	-	1	2,100
906357 Proactive Lead Service Replacement 2012	-	999	-	-	1	1,000
906358 Transmission Mains Condition Assessment	-	1,600	-	-	-	1,600
906440 Buildings-Water Services	-	47	-	-	-	47
906481 Risk Assessment-Water Structures-2012	-	100	-	-	-	100
906486 Watermain Relocation - MTO/Lees	-	1,174	1,175	-	1	2,350
906489 Merton (Scott-Wellington)	-	1,199	-	-	1	1,200
906490 Charlotte (Besserer-Laurier)	-	1,049	-	-	1	1,050
906491 Notre Dame West(St Joseph-East-dead end)	-	549	-	-	1	550
906492 Transmission Main Rehab - 2012	-	1,999	-	-	1	2,000
906539 Large Transmission Mains Risk Mitigation	-	1,000	-	-	-	1,000
906570 Communal Well System Rehab 2012	-	450	-	-	-	450
906642 Munster Well System Rehab	-	1,399	-	-	1	1,400
906659 Water Facilities Space Upgrades	-	1,285	-	-	-	1,285
906661 Carp Mechanical Renewal	-	700	-	-	-	700
906663 Forest Ridge Pump Station Renewal	-	899	-	-	1	900

City of Ottawa
Environment Committee (Rate Supported)
Capital Program Summary
In Thousands (\$000)

2012 Budget

Project Description	Tax Supported/ Dedicated	Rate Supported	Revenues	Development Charges	Debt	Grand Total
906664 Hurdman Bridge PS Renewal	-	299	-	-	1	300
906665 Lemieux WPP Intake Ice Mgmt	-	99	-	-	1	100
	1,159	37,836	1,425	1,797	15	42,232
Growth						
900632 Strandherd Rd F/M: Greenbank-Fallowfield	-	37	-	338	-	375
901183 Trim Road / St Joseph Watermains	-	117	-	1,051	-	1,168
904297 Kanata West Transmission Mains	-	-	-	-	280	280
904981 3C/2W Pressure Zone Separation	-	145	-	-	1,305	1,450
906621 2012 Infrastructure Master Plan (Water)	-	313	-	37	-	350
906622 2012 Off Site Reliability Links	-	10	-	100	1	111
906623 2012 Water & Wastewater EA Studies	-	60	-	240	-	300
	-	682	-	1,766	1,586	4,034
	1,159	38,518	1,425	3,563	1,601	46,266
Integrated Water & Wastewater						
Renewal of City Assets						
906086 Lady Ellen/Laperriere/McBride	-	5,500	-	-	-	5,500
906098 Norice / Woodroffe	-	4,500	-	-	-	4,500
906458 Sewer & Water Repairs/Improvements-2012	-	1,998	-	-	2	2,000
906459 Sewer Access & Outfalls - 2012	-	1,499	-	-	1	1,500
906463 LRT/ISD Coordinated Works	-	2,000	-	-	-	2,000
906488 Holland Ave (Scott-Tyndall)	-	3,398	-	-	2	3,400
906635 Hurdman-St-Laurent Watermain Relocation	-	2,998	-	-	2	3,000
	-	21,893	-	-	7	21,900
Wastewater Services						
Renewal of City Assets						
902140 Sewage Pumping Station Rehab. Program	-	1,425	-	-	-	1,425
903438 ROPEC East Boiler Plant Upgrade	-	199	-	-	1	200
904141 Sewer Lateral Repairs	-	4,100	-	-	-	4,100
904567 Orleans Flood Control Remediation	-	500	-	-	-	500

City of Ottawa
Environment Committee (Rate Supported)
Capital Program Summary
In Thousands (\$000)

2012 Budget

Project Description	Tax Supported/ Dedicated	Rate Supported	Revenues	Development Charges	Debt	Grand Total
904939 ORAP-Wet Weather IMP - Flow Reduction	-	-	1,500	-	-	1,500
905005 Rehabilitation of Digester 1 to 4	-	200	-	-	-	200
905053 ORAP-Critical Outfall Monitor Initiative	-	469	231	-	-	700
905424 Barrhaven S Oversizing North Jock River	-	-	-	100	-	100
905515 Knoxdale Road (Woodroffe - Newhaven)	-	500	-	-	-	500
905653 ORAP-Stormwater Mgmt Retrofit MasterPlan	-	-	2,000	-	-	2,000
905756 ROPEC - Sluice Gates & Concrete Repairs	-	2,000	-	-	-	2,000
905757 Monahan Constructed Wetland Rehab.	-	900	-	-	-	900
905806 Flow Monitoring System Rehab. Program	-	270	-	30	-	300
906186 ROPEC - Sewage Treatment Rehab. Program	-	974	-	2,025	1	3,000
906195 Lab Equipment Purchases/Replacement	-	100	-	-	-	100
906323 Lifecycle Renewal Fleet - Wastewater Svc	605	-	-	-	-	605
906478 Scoping Pre/Post Drain Culverts - 2012	-	400	-	-	-	400
906479 Drainage Culverts (1m-3m) - 2012	-	3,459	-	-	1	3,460
906482 Drainage Culverts (<=1M) - 2012	-	1,099	-	-	1	1,100
906483 Drainage Culverts - Resurfacing - 2012	-	740	-	-	-	740
906484 Drainage Culverts - Site Specific - 2012	-	1,000	-	-	-	1,000
906493 Inlet Control Devices - CW - 2012	-	400	-	-	-	400
906495 Ditch Alts - Assess/Implement - 2012	-	50	100	-	-	150
906496 Acres Pump Station Overflow	-	249	-	-	1	250
906577 Wastewater Drainage Roofing 2012	-	150	-	-	-	150
906630 Wastewater Master Drawings Upgrades	-	450	-	-	-	450
906636 Rickey PI Park Retaining Wall rehab	-	1,000	-	-	-	1,000
906637 Old George St (Osgoode Main-Cuddy)	-	999	-	-	1	1,000
906643 ROPEC-Ops & Technical Bldg Space Upgrade	-	2,600	-	-	-	2,600
906644 StormwaterImprovements - Holmwood Area	-	1,999	-	-	1	2,000
906645 ROPEC - Primary Clarifier Upgrades	-	1,749	-	-	1	1,750
906646 ROPEC Aeration Piping & Diffusers Replace	-	399	-	-	1	400
906647 ROPEC - Scum Removal Facility Replacemnt	-	399	-	-	1	400

City of Ottawa
Environment Committee (Rate Supported)
Capital Program Summary
In Thousands (\$000)

2012 Budget

Project Description	Tax Supported/ Dedicated	Rate Supported	Revenues	Development Charges	Debt	Grand Total
906648 ROPEC - Power Cogeneration Plant Upgrade	-	1,449	-	-	1	1,450
906649 Hauled Waste/Septage Receiving Facility	-	399	-	-	1	400
906650 ROPEC - Process Facility - Environ. Sys	-	599	-	-	1	600
906670 ROPEC Treatment Facility Develop. Plan	-	500	-	-	-	500
906671 Collection Sys. Condition Assesment Prog	-	400	-	-	-	400
	605	32,126	3,831	2,155	13	38,730
Growth						
903345 Kanata West Pump Station & Forcemain	-	175	-	1,575	-	1,750
903346 Kanata West Sewer OverSizing	-	-	-	500	-	500
904984 South Nepean Collector Ph 2	-	29	-	270	1	300
904985 North Kanata Sewer Ph 2	-	45	-	405	-	450
905416 South Nepean Collector Ph 3	-	44	-	405	1	450
905423 Riverside S Community Sanitary	-	-	-	298	-	298
905991 SUC Nepean S Oversizing South Jock River	-	-	-	800	19	819
906626 2012 Servicing Studies Development	-	20	-	180	-	200
	-	313	-	4,433	21	4,767
Regulatory						
902142 ORAP-ROPEC - Effluent Declorination	-	158	642	-	-	800
	-	158	642	-	-	800
Strategic Initiatives						
905788 ORAP-Public Education & Outreach	-	38	37	-	-	75
906624 2012 Infrastructure Master Plan (Sewer)	-	268	-	32	-	300
906625 2012 Infrastructure Master Plan (Storm)	-	159	-	41	-	200
906627 2012 Watershed/Subwatershed Planning	-	250	-	-	-	250
906631 2012 Stream Restoration Projects	-	560	-	-	-	560
906632 Flood Plain Mapping	-	225	-	-	-	225
	-	1,500	37	73	-	1,610
	605	34,097	4,510	6,661	34	45,907

City of Ottawa
Environment Committee (Rate Supported)
Capital Program Summary
In Thousands (\$000)

2012 Budget

Project Description	Tax Supported/ Dedicated	Rate Supported	Revenues	Development Charges	Debt	Grand Total
Integrated Roads, Water & Wastewater						
Renewal of City Assets						
901160 Integrated Program - Bulk Proj	-	9,770	-	-	-	9,770
905553 West-end Flood Mitigation	-	23,685	-	-	-	23,685
905594 ORAP-Harvey St /Concord St N / Havelock	-	2,695	1,933	132	-	4,760
905595 ORAP-Rideau (Dalhousie-Chapel)	-	8,061	3,928	224	-	12,213
905865 Meadowlands Area Watermains	-	6,677	-	153	-	6,830
906451 Infrastructure Assessment & Data Collect	-	5,445	-	205	-	5,650
906452 Scoping Pre/Post Engineering	-	600	-	-	-	600
906453 R-O-W/Easement Adjustments	-	600	-	-	-	600
906454 Guidelines, Specs & Engineering	-	210	-	-	-	210
906455 Surveys & Mapping	-	450	-	-	-	450
906456 Admiral Ave. (Crerar Ave - Anna Ave)	-	1,453	-	45	2	1,500
906464 Road Resurfacing - CW	-	538	-	-	2	540
	-	60,184	5,861	759	4	66,808
Transportation Services-Int						
Renewal of City Assets						
906566 Ottawa on the Move	-	103,264	24,852	5,743	75,000	208,859
	-	103,264	24,852	5,743	75,000	208,859
Grand Total	1,764	257,956	36,648	16,726	76,646	389,740

*Does not include the Tax supported portions of the program.

**City of Ottawa
Environment Committee
Capital Program
In Thousands (\$000)**

2012 Budget

Service Area: Drinking Water Services							
Category	2012 Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Gas Tax	Rate Supported Reserves	Development Charges	Debt
Renewal of City Assets	41,732	1,175	1,159	-	37,586	1,797	15
Growth	4,534	250	-	-	932	1,766	1,586
Regulatory	-	-	-	-	-	-	-
Strategic Initiatives	-	-	-	-	-	-	-
Total	46,266	1,425	1,159	-	38,518	3,563	1,601

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details																					
906324 Lifecycle Renewal Fleet - Water Services																							
Dept: Public Works	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various																				
<p>This program provides funding authority for Municipal vehicle and equipment scheduled for replacement, life extension, modification, or major repair. The timely replacement of vehicles and equipment that have reached their life expectancy, or are no longer suitable or economical to operate, helps ensure the provision of a cost-effective fleet service. Vehicles and equipment replacement decisions are guided by the ongoing study of the condition of each vehicle, its application, its safety, and an assessment of its remaining useful life. All vehicles and equipment scheduled for replacement are inspected and evaluated to confirm the requirement. Commitments for vehicle purchases must be made at least one year prior to delivery. Further information on the replacement plan is contained in the 2012 Municipal Fleet Replacement Plan which was approved by ACS2011-COS-PWS-0013 .</p> <p>This project is part of a program that flows across Service Areas which consists of the following:</p> <table border="0"> <tr> <td>Fire Services</td> <td>\$ 5,359</td> </tr> <tr> <td>Paramedic Services</td> <td>\$ 2,546</td> </tr> <tr> <td>By-Law Services</td> <td>\$ 157</td> </tr> <tr> <td>Transportation Services - Roadways</td> <td>\$10,449</td> </tr> <tr> <td>Parks & Recreation</td> <td>\$ 37</td> </tr> <tr> <td>Fleet Services</td> <td>\$ 385</td> </tr> <tr> <td>Solid Waste</td> <td>\$ 3,795</td> </tr> <tr> <td>Wastewater Services</td> <td>\$ 605</td> </tr> <tr> <td>Water Services</td> <td>\$ 1,300</td> </tr> </table>	Fire Services	\$ 5,359	Paramedic Services	\$ 2,546	By-Law Services	\$ 157	Transportation Services - Roadways	\$10,449	Parks & Recreation	\$ 37	Fleet Services	\$ 385	Solid Waste	\$ 3,795	Wastewater Services	\$ 605	Water Services	\$ 1,300	2012 Request	1,300	Unspent Previous Authority		146
	Fire Services	\$ 5,359																					
	Paramedic Services	\$ 2,546																					
	By-Law Services	\$ 157																					
	Transportation Services - Roadways	\$10,449																					
	Parks & Recreation	\$ 37																					
	Fleet Services	\$ 385																					
	Solid Waste	\$ 3,795																					
	Wastewater Services	\$ 605																					
	Water Services	\$ 1,300																					
Revenues	-	Rate Supported		141																			
Tax Supported/ Dedicated	1,159	Development Charges		-																			
Gas Tax	-	Debt		-																			
Forecast	2012	2013	2014	2015																			
Authority	1,300	877	668	1,397																			
Spending Plan	1,446	877	668	1,397																			
FTE's Operating Impact	-	-	-	-																			

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information				Financial Details																																																													
Buildings-Water Services																																																																	
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various																																																														
<p>The Buildings and Parks Program provides for life cycle renewal and replacement works to existing building and park assets. Detailed scope of work for specific projects extend to a wide assortment of work such as roof replacement, building preservation, building mechanical and electrical systems, park play structures, hard landscaping, arena and pool equipment and unscheduled work. Annual programming provides allocations as required to core project cost groupings - buildings and parks - for each of the service areas as follows:</p> <table border="1"> <thead> <tr> <th>Service Area</th> <th>Buildings</th> <th>Parks</th> <th>Accessibility</th> </tr> </thead> <tbody> <tr> <td>Parks & Recreation</td> <td>\$ 6,554</td> <td>\$900</td> <td>\$1,700</td> </tr> <tr> <td>Transit Services</td> <td></td> <td>\$ 4,300</td> <td></td> </tr> <tr> <td>General Government</td> <td>\$ 718</td> <td></td> <td>\$ 225</td> </tr> <tr> <td>Library Services</td> <td></td> <td>\$ 580</td> <td></td> </tr> <tr> <td>Road Services</td> <td>\$ 491</td> <td></td> <td></td> </tr> <tr> <td>By-Law Services</td> <td></td> <td>\$ 303</td> <td></td> </tr> <tr> <td>Fire Services</td> <td>\$ 292</td> <td></td> <td></td> </tr> <tr> <td>Cultural Services</td> <td>\$ 227</td> <td></td> <td></td> </tr> <tr> <td>Social Services</td> <td>\$ 163</td> <td></td> <td></td> </tr> <tr> <td>Long Term Care</td> <td>\$ 133</td> <td></td> <td>\$ 75</td> </tr> <tr> <td>Water Services</td> <td>\$ 47</td> <td></td> <td></td> </tr> <tr> <td>Child Care Services</td> <td>\$ 31</td> <td></td> <td></td> </tr> <tr> <td>Authority Request</td> <td>\$13,839</td> <td>\$900</td> <td>\$2,000</td> </tr> </tbody> </table>				Service Area	Buildings	Parks	Accessibility	Parks & Recreation	\$ 6,554	\$900	\$1,700	Transit Services		\$ 4,300		General Government	\$ 718		\$ 225	Library Services		\$ 580		Road Services	\$ 491			By-Law Services		\$ 303		Fire Services	\$ 292			Cultural Services	\$ 227			Social Services	\$ 163			Long Term Care	\$ 133		\$ 75	Water Services	\$ 47			Child Care Services	\$ 31			Authority Request	\$13,839	\$900	\$2,000	2012 Request	47	Unspent Previous Authority			-
				Service Area	Buildings	Parks	Accessibility																																																										
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Forecast	2012	2013	2014	2015																																																													
Authority	47	-	-	-																																																													
Spending Plan	47	-	-	-																																																													
FTE's Operating Impact	-	-	-	-																																																													

Program funding requirements to support project needs are defined in the Long Range Financial Plan. Actual budget allocations for these programs are adjusted to reflect change in need and affordability. Forecasts are based on bulk allocations that will be detailed in future budget submissions. Project Cost Group Summaries are provided following this program summary.

Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906440	CW	Buildings-Water Services	47
<p>The Buildings budget allocation has been adjusted to reflect change in need and affordability. Detailed information and costs associated with specific components and projects are as follows.</p>			
<p>CLYDE AVENUE WATER SERVICES HEAD QUARTERS FACILITY</p>	<p>16</p>	<p>REPLACE FIRE ALARM PANEL AND DEVICES</p>	<p>32</p>
<p>CITY WIDE: WATER SERVICES FACILITIES</p>	<p>CW</p>	<p>UNSCHEDULED WORK: WATER SERVICES FACILITIES</p>	<p>15</p>

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details					
Water Treatment-Renewal							
Dept: Environmental Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
<p>The program is aimed at addressing annual requirements for the City's two Water Purification Plants that have an estimated replacement value of \$550 million. In order to provide continued uninterrupted safe supply of potable water, preserve and extend the life of the infrastructure, and to meet provincial and federal regulation requirements it is necessary to invest in the ongoing rehabilitation and renewal of these assets. The program is comprised of a number of key components that include:</p> <ul style="list-style-type: none"> - Facilities Projects - Process Modifications - Water Quality Improvement Initiatives - Rehabilitation - Service Level Improvements <p>Major 2012 projects include:</p> <ul style="list-style-type: none"> - Britannia Filter Rebuild/Equipment upgrades (\$22M) - Lemieux Island Clear Well Renewal (\$8M) - Lemieux Sulphuric Acid Storage Tank Replacement (\$2M) - SCADA treatment plant process & chemical system monitoring and control upgrades (\$1.4M) - Electrical & Mechanical equipment level condition assessment & life cycle replacements (\$7M) 		2012 Request	8,750	Unspent Previous Authority		31,723	
		Revenues	-	Rate Supported			8,748
		Tax Supported/ Dedicated	-	Development Charges			-
		Gas Tax	-	Debt			2
		Forecast	2012	2013	2014	2015	
		Authority	8,750	10,990	13,600	14,737	
		Spending Plan	40,473	10,990	13,600	14,737	
		FTE's Operating	-	-	-	-	
		Impact	-	-	-	-	

City of Ottawa
Service Area: Drinking Water Services
 In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
905681 Water System SCADA & Instrument Rehab	CW		750
<p>The Supervisory Control and Data Acquisition (SCADA) system is a computerized system that is used by Certified Operators to monitor and control the drinking water treatment system. The Operator monitors all critical components of the treatment process and is able to remotely operate equipment within the purification plants, communal well systems, pump stations, reservoirs and storage tanks. The SCADA system is crucial to the operation of the treatment system for monitoring key parameters required under provincial and federal legislation. The existing SCADA system is nearing the end of its lifecycle. Various components of the system either require to be upgraded or replaced to maintain reliability.</p>			
906350 Water Treatment Plant Rehab -2012	CW		5,900
<p>The replacement value of the City's two (2) water facilities is estimated to be in excess of \$550 million. This project addresses equipment upgrades, the infrastructure life cycle replacement, process changes resulting from, operational, legislative and health and safety initiatives. Work includes: valve and meter replacements, mechanical and electrical rehabilitation associated with the filter reconstruction (described below), pilot plant work, chemical tank replacement/rehab, chemical system control/operational improvements.</p>			
906665 Lemieux WPP Intake Ice Mgmt	CW		100
<p>The Lemieux Island WPP is supplied with raw water by an intake structure submerged several feet below the water surface in the Ottawa River. The intake pipe out at intake screens in the low lift pump station. The formation of frazil occurs during early winter (prior to full ice cover being formed on the Ottawa River) and early spring (while ice cover is being broken up). When it occurs, clogging the screens, the disruption can and has forced a shutdown of the plant until the screens can be cleared. This project will first investigate potential solutions and their feasibility and implement a permanent solution.</p>			
903403 Britannia Filter Rebuild/Equip Upgrades	7		2,000
<p>The filtration process is an important part of the water treatment process as it provides physical removal of pathogens in the raw water. The filters at Britannia have been in place in their current configuration since 1975. Recent investigations have revealed that they have reached the end of their life cycle and require major rehabilitation. The scope of work for this project includes the replacement of filter media and under drain system (filters 1-12), installation of large blowers for improved filter backwash and the replacement of filter valves and influent gates including significant work on associated electrical, mechanical, control and instrumentation systems.</p>			

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Water Pumping Stations					
Dept: Environmental Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The City relies on the continuous operation of the fourteen (14) water pumping stations to provide sufficient quantity of water at adequate pressure to meet our service demands. This program is intended to provide funding necessary to conduct condition assessment, life-cycle rehabilitation, upgrades and enhancements at these facilities.</p> <p>Taken collectively, the asset replacement value of these water pumping stations is \$75 million.</p> <p><u>Major 2012 projects include:</u></p> <ul style="list-style-type: none"> - Glen Cairn Pump #3 & Valve Replacement (\$800G) - Forest Ridge Pumping Station Upgrades (\$1M) - Hurdman Bridge Pumping Station Renewal (\$1M) - Stittsville, Glen Cairn, Campeau SCADA Upgrades (\$350G) - Fleet Street Aquaduct Condition Assessment (\$250G) - Pumping Station Emergency Power, Electrical & Mechanical equipment level life cycle replacements (\$1.5M) 	2012 Request	2,500	Unspent Previous Authority		2,413
	Revenues	-	Rate Supported		2,497
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		3
	Forecast	2012	2013	2014	2015
	Authority	2,500	9,946	1,843	1,940
	Spending Plan	4,913	9,946	1,843	1,940
	FTE's Operating	-	-	-	-
	Impact	-	-	-	-

City of Ottawa
Service Area: Drinking Water Services
 In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906354 Water Pumping Station Facility Rehab 2012	CW		1,300
<p>The purpose of this project is to establish a funding envelope for the retrofit, rehabilitation or replacement of the pumping station assets as they reach their end of life.</p> <p>Typical projects include: equipment replacement, communication tower replacement, electrical upgrades, various high lift pump replacements, standby power generator retrofits, flow meter replacements and specialized Arc flash hazard studies.</p>			
906663 Forest Ridge Pumping Station Renewal	CW		900
<p>Access to the Forest Ridge Pumping Station to the Orleans reservoir site is past its life expectancy. This project will reconstruct the roadway, including the replacement of the hydro and communications service lines.</p>			
906664 Hurdman Bridge Pumping Station Renewal	CW		300
<p>The station was constructed in 1974 and electrical and mechanical components are in need of life cycle renewal. The scope of work will include the replacement of electrical distribution (inside and outside) equipment, valves , station flow meter, transformers and standby power equipment. The 2012 authority request is intended to cover the costs associated with scoping, design and tender document preparation.</p>			

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Water Communal Well System					
Dept: Environmental Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The City currently operates five (5) communal well based drinking water systems. These include systems serving:</p> <ul style="list-style-type: none"> -Munster Hamlet -Richmond – King’s Park Subdivision -Carp -Vars -Greely - Shadow Ridge Subdivision <p>Taken collectively, the asset value for the facilities associated with these communal drinking water systems (pumping stations, reservoirs, treatment process) is estimated at \$12 million.</p> <p>This program has been developed to ensure that these assets are maintained and that the consumption, quality and regulatory requirements of this service are met.</p> <p><u>Major 2012 projects include:</u></p> <ul style="list-style-type: none"> - Munster Hamlet Emergency Power Upgrades (\$1.4M) - Carp Electrical & Mechanical Upgrades (\$1.3G) - Communal System Electrical & Mechanical equipment level life cycle replacements (\$1M) 	2012 Request	2,550	Unspent Previous Authority		1,178
	Revenues	-	Rate Supported		2,549
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		1
	Forecast	2012	2013	2014	2015
	Authority	2,550	500	1,227	2,274
	Spending Plan	3,728	500	1,227	2,274
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906570 Water System SCADA & Instrument Rehab	CW		450
<p>The purpose of this project is to establish a funding envelope for the retrofit, rehabilitation or replacement of asset components associated with the five (5) communal well based drinking water systems serving: Munster Hamlet; Richmond - King's Park Subdivision; Carp; Vars; Greely - Shadow Ridge Subdivision.</p> <p>Typical projects include: equipment replacement, mechanical and electrical upgrades, standby power generator retrofits, and condition assessment.</p>			
906661 Carp Mechanical Renewal	CW		700
<p>With gradual increasing demands on the pumping station since it was constructed in 1997 the wear on the duty pumps and failures have occurred due to hydraulic constraints as they must operate outside an optimum performance range. Some piping configurations are also contributing to the situation. New duty pumps, valves and piping modifications will ensure reliable operations through the next life cycle of these pumps.</p>			
906642 Munster Well System Rehab	CW		1,400
<p>The Munster Communal Well System, constructed in 1970, is fed by two separate wells and pump houses. Recent hydro service outages and generator failure lead to significant service disruptions in the community. A subsequent study identified several needs that are addressed by this project; renewal of antiquated electrical equipment which is at the end of its life cycle and upgrade the standby power equipment to ensure reliability of the water service at both well heads.</p>			

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details				
Water Distribution Systems						
Dept: Environmental Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various			
<p>The City of Ottawa operates a water distribution system consisting of 2,881 km of piping, 18,826 fire hydrants, over 42,137 valves and 212,440 water service meters. The value of this buried infrastructure is over \$6.0 billion. This program is aimed at addressing annual preventive and corrective maintenance requirements for the City's existing water distribution network in order to provide reliable operation of the network components, to ensure drinking water quality is maintained throughout the water distribution network and to preserve and extend the life of the infrastructure to prevent failures requiring heavier and costlier reconstruction strategies.</p> <p>The program is focused on:</p> <ul style="list-style-type: none"> - Proactive life cycle renewal and rehabilitation projects; - Level of service initiatives; - System improvements and optimization; - Asset life-cycle upgrades and rehabilitation to support growth demand. <p>Some of the key infrastructure renewal projects for 2012 are as follows:</p> <ul style="list-style-type: none"> - Large Transmission main (i.e Orleans Transmission) condition assessment and Risk reducing mitigation projects (\$4M) - Service Post Rehabilitation(\$1M) - Water Meter Replacement and Automated Meter Reading Initiatives (\$6.5M) - Major preventative maintenance & asset level life-cycle upgrades and rehabilitation such as cathodic protection and water distribution system improvements (\$5.8M) - Lead Service Replacement program (\$1M) 	2012 Request	10,800	Unspent Previous Authority		7,649	
	Revenues	-	Rate Supported			10,797
	Tax Supported/ Dedicated	-	Development Charges			-
	Gas Tax	-	Debt			3
	Forecast	2012	2013	2014	2015	
	Authority	10,800	11,300	14,600	14,100	
	Spending Plan	18,449	11,300	14,600	14,100	
	FTE's Operating	-	-	-	-	
	Impact	-	-	-	-	

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906348 Service Posts Rehab. 2012	CW		800
<p>There are approximately 212,440 water services connecting customers to the water distribution supply system, each of them with an individual shut off valve. The service post is the metallic tube that allows access to the individual customer shut off valve from the surface during planned maintenance activities or emergency events. This project will rehabilitate these non-working service posts by using vacuum excavation, a method that cuts cost by more than half. The program also provides an opportunity to visually inspect the service pipe material for leaks and structural deterioration. Preventive maintenance performed on service posts will avoid costly emergency repairs.</p>			
906349 Cathodic Protection Water System 2012	CW		1,800
<p>The water distribution system consists of over 2,881 km of watermains. The Cathodic Protection program is a proactive program to extend the life of newer watermains that are showing signs of premature corrosion failure. Anodes are installed onto the pipe network to prolong its useful life by acting as a sacrificial material, thereby protecting watermains from corrosion. Key elements include condition assessment, installation, monitoring and testing of the anodes to measure their effectiveness and predict life cycle expectations. Planned work and 2012 will continue in the Gloucester, Ottawa West and Nepean areas.</p>			
906356 Water Distribution Sys Improvements 2012	CW		2,100
<p>The City of Ottawa's water distribution system consists of over 2,881 km of watermains, 42,137 valves and 18,826 hydrants. This program involves a number of smaller scale improvements including; water loss control initiatives, access improvements; hydrant and valve life-cycle replacements; installation of flusher units; a swabbing program (to improve water quality) and system identification improvements for hydrants and valves. These continuing initiatives ensure that the watermain infrastructure (watermains and appurtenances) is added to, replaced and/or upgraded when normal life expectancy is surpassed and to ensure the system performs in accordance with operating strategies and practices, and licencing requirements (DWQMS).</p>			

City of Ottawa
Service Area: Drinking Water Services
 In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906357 Proactive Lead Service Replacement 2012	CW		1,000
<p>The City produces and distributes drinking water that is essentially free from lead. However, lead can enter drinking water through exposure to existing lead service lines. As these services exist within public right-of-way and private property, the responsibility for these services is a shared City/property owner responsibility. The City replaces lead services within the public right-of-way as part of the Watermain Rehabilitation Program. This program provides the funds necessary to cover the costs associated with the City's portion of Lead Service Replacement. Customers are responsible for the cost of service replacement on private property. The program also offers residents deferred payment options on the tax bill. Production and distribution costs for public information bulletins are provided by this account.</p>			
906358 Large Transmission Mains Condition Assessment	CW		1,600
<p>This multi-year project will provide the funding envelope to conduct proactive condition assessment investigations of the water distribution system's key transmission mains and their related appurtenances (i.e. valves, chambers). These mains and appurtenances are the backbone of the system and are critical to the continued reliability of service to large portions of the urban population. As the condition assessment technology can only occur under certain operating conditions, this work can only be conducted over a number of years. This project is one of the three key capital projects which focus on condition assessment, risk mitigation and transmission main repair and renewals, that together are aimed at reducing both the risk exposure and impact of failures.</p>			
906539 Transmission Mains Risk Mitigation	CW		1,000
<p>This multi-year project will provide the funding envelope to implement various failure impact mitigation initiatives on large transmission mains which may include in-line contingency pumping stations, supply by-pass systems to automated valves aimed to maintain reliable basic daily supply during failure events. These mains and appurtenances are the backbone of the system and are critical to the continued reliability of service to large portions of the urban population. This project is one of the three key capital projects which focus on condition assessment, risk mitigation and transmission main repair and renewals, that together are aimed at reducing both the risk exposure and impact of failures that may occur.</p>			
905741 Meter Lifecycle Replacement Program	CW		2,500
<p>This multi-year program has been established to replace water meters which are approaching end-of life. The program will target the replacement of the meter unit which are incompatible with the AMI devices. This will sustain our momentum towards full AMI System deployment and associated operational cost savings and efficiency gains.</p>			

Project Information		Financial Details			
906659 Water Facilities Space Upgrades					
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2015		
Existing facilities within Environmental Services Department are reaching capacity. In order to provide space that required due to corporate realignment initiatives accommodation renovations are required. A phased implementation has been planned to meet the immediate and future needs anticipated.	2012 Request	1,285	Unspent Previous Authority		-
	Revenues	-	Rate Supported	1,285	
	Tax Supported/ Dedicated	-	Development Charges	-	
	Gas Tax	-	Debt	-	
	Forecast	2012	2013	2014	2015
	Authority	1,285	2,075	330	7,500
	Spending Plan	1,285	2,075	330	7,500
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Structures-Water					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Structures Program provides for condition assessments, preventative maintenance, rehabilitation and reconstruction works undertaken on the City's existing bridges, culverts, pedestrian overpasses and retaining wall systems.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p> <p>Detailed information and costs associated with specific components and projects directly follows this program summary page.</p>	2012 Request	100	Unspent Previous Authority		536
	Revenues	-	Rate Supported		100
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	100	-	100	-
	Spending Plan	636	-	100	-
	FTE's	-	-	-	-
	Operating	-	-	-	-
	Impact	-	-	-	-

City of Ottawa
Service Area: Drinking Water Services
 In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906481	Risk Assessment-Water Structures 2012	CW	100
<p>This project provides funding for risk assessment of structures supporting water transmission mains which is one of the lifeline infrastructures. Risk assessment will include the assessment of likelihood of structural and functional failures and the associated consequences as well as recommendations to mitigate the risks.</p>			


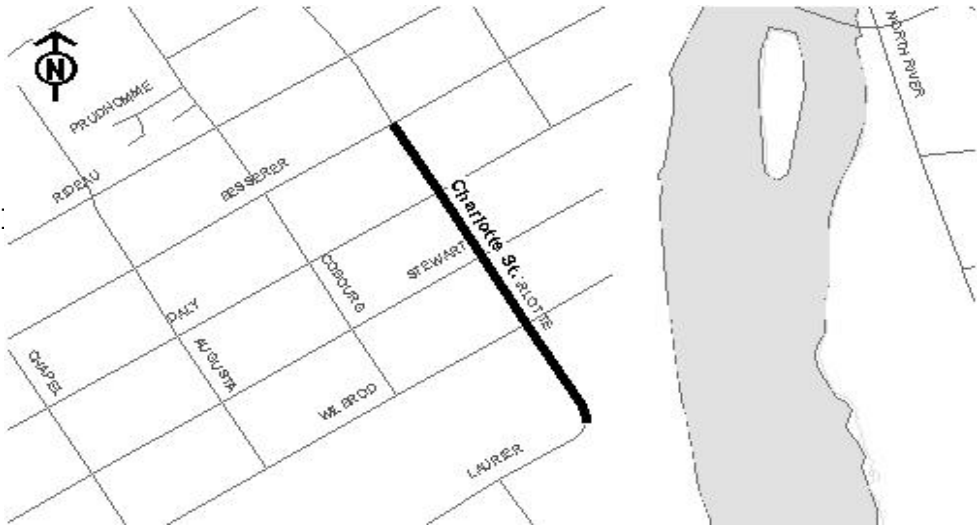
City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Water System Rehabilitation					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Water System Rehabilitation Program addresses annual rehabilitation requirements for the City's piped water network to extend the life of the infrastructure, provide continued supply of potable water, prevent failures requiring more extensive reconstruction and ensure drinking water quality is maintained throughout the water distribution network. The program is focused on:</p> <ul style="list-style-type: none"> • Proactive life cycle renewal and rehabilitation projects; • Level of service initiatives; • System improvements and optimization; • Miscellaneous upgrades and rehabilitation to support growth demand; • Miscellaneous local repairs. <p>Program funding requirements to support renewal needs are defined in the Long Range Financial Plan. Actual budget allocations for these programs are adjusted to reflect change in needs and affordability envelopes.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions. The funding requests for watermain costs coordinated with roadway, wastewater or stormwater rehabilitation, are included within the Integrated Rehabilitation Programs.</p> <p>Detailed information and costs associated with specific stand alone (non-integrated) components and projects directly follow this program summary page.</p> <p>2012 Spending Plan authority includes allocations for existing ongoing initiatives related to the Johnston Road, Pinhey and Delong Drive watermains as well as new funding requests for Merton Street, Charlotte Street watermains and design of the watermain relocation at Lees Avenue and highway 417.</p>	2012 Request	7,150	Unspent Previous Authority		16,149
	Revenues	1,175	Rate Supported		5,970
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		5
	Forecast	2012	2013	2014	2015
	Authority	7,150	5,000	6,000	15,150
	Spending Plan	23,299	5,000	6,000	15,150
	FTE's	-	-	-	-
	Operating	-	-	-	-
	Impact	-	-	-	-


City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
<p>906489 Merton (Scott-Wellington)</p> <p>The existing watermain in Merton St. between Scott St. and Wellington St. requires replacement due to its age and size. The scope of work includes the watermain replacement, replacement of the water services to the property line and trench reinstatement. The project scope does not extend to the full right-of-way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by the trench works will be reinstated as part of the scope of the project. The reinstated conditions will be monitored and considered as part of an annual roadway needs assessment and renewal programming as required. The current funding allocation will allow for the design and construction in 2012.</p>	<p>15</p>	 <p>The map shows a grid of streets in Ward 15. A thick black line highlights the segment of Merton St. between Scott St. to the west and Wellington St. to the east. Other streets shown include St. Charles, Bayview, and various residential streets like St. John, St. Peter, and St. Paul.</p>	<p>1,200</p>
<p>906490 Charlotte (Besserer-Laurier)</p> <p>The existing watermain in Charlotte St. between Besserer St. and Laurier Ave. requires replacement due to its age and size. The scope of work includes the watermain replacement, the replacement of the water services to the property line and trench reinstatement. The project scope does not extend to the full right-of-way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by the trench works will be reinstated as part of the scope of the project. The reinstatement will be monitored and considered as part of an annual roadway needs assessment and renewal programming as required. The current funding allocation will allow for the design and construction in 2012.</p>	<p>12</p>	 <p>The map shows a grid of streets in Ward 12. A thick black line highlights the segment of Charlotte St. between Besserer St. to the west and Laurier Ave. to the east. Other streets shown include Prud'homme, Daly, and various residential streets like St. Charles, St. Peter, and St. Paul.</p>	<p>1,050</p>

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906491 Notre Dame West (St Joseph-dead end)	2		550
<p>The existing watermain in Notre Dame St. W. between St. Joseph Blvd. E. and the dead end requires replacement due to its condition. The scope of work includes the watermain replacement, replacement of water services to the property line and trench reinstatement. The project scope does not extend to the full right-of-way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by the trench works will be reinstated as part of the scope of the project. The reinstated conditions will be monitored and considered as part of an annual roadway needs assessment and renewal programming as required. The current funding allocation will allow for the design and construction in 2012.</p>			
906486 Watermain Relocation – MTO/Lees	CW		2,350
<p>This project will provide authority for design of watermain relocations and adjustments as a result of the Ministry of Transportation widening of Highway 417. Authority request for construction is tentatively scheduled for 2015.</p>			
906492 Transmission Main Rehab 2012	CW		2,000
<p>An assessment program to establish the condition of water transmission mains is underway. This project provides for transmission main rehabilitation or replacement of aging sections of the water transmission system as a result of corrosive attack, structural failures and erosion or soil movements.</p>			

Project Information		Financial Details				
906621 2012 Infrastructure Master Plan (Water)						
Dept:	Planning & Growth Management	Category:	Strategic Initiatives	Ward:	CW	
				Year of Completion:	2016	
<p>This fund will be used to undertake projects related to the water master plan and consultant support for developing the master plan.</p>		2012 Request	350	Unspent Previous Authority		633
		Revenues	-	Rate Supported	313	
		Tax Supported/ Dedicated	-	Development Charges	37	
		Gas Tax	-	Debt	-	
		Forecast	2012	2013	2014	2015
		Authority	350	1,150	1,250	-
		Spending Plan	895	950	1,225	313
		FTE's	-	-	-	-
		Operating Impact	-	-	-	-
		906622 2012 Off Site Reliability Links				
Dept:	Planning & Growth Management	Category:	Growth	Ward:	CW	
				Year of Completion:	2016	
<p>This servicing program is required to provide for system integrity and reliability. Although developers are required to provide servicing infrastructure for their developments, it is occasionally necessary for the City to identify and make improvements in the system through the construction of reliability links for short distances outside of subdivision plans in order to improve service and reliability to existing and new areas. This program satisfies those needs. Locations will be identified on an as needed basis.</p>		2012 Request	111	Unspent Previous Authority		894
		Revenues	-	Rate Supported	10	
		Tax Supported/ Dedicated	-	Development Charges	100	
		Gas Tax	-	Debt	1	
		Forecast	2012	2013	2014	2015
		Authority	111	111	111	111
		Spending Plan	1,005	111	111	111
		FTE's	-	-	-	-
		Operating Impact	-	-	-	-

Project Information		Financial Details			
906623 2012 Water & Wastewater EA Studies					
Dept: Planning & Growth Management	Category: Growth	Ward: CW	Year of Completion: 2016		
This request is for funding the environmental assessment and functional design work associated with capital projects for water and wastewater services. The 2012 funding is to be directed to developing the functional design associated with a proposed diversion of the Stittsville/Fernbank Trunk Sewer.	2012 Request	300	Unspent Previous Authority		578
	Revenues	-	Rate Supported		60
	Tax Supported/ Dedicated	-	Development Charges		240
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	300	300	300	300
	Spending Plan	878	300	300	300
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

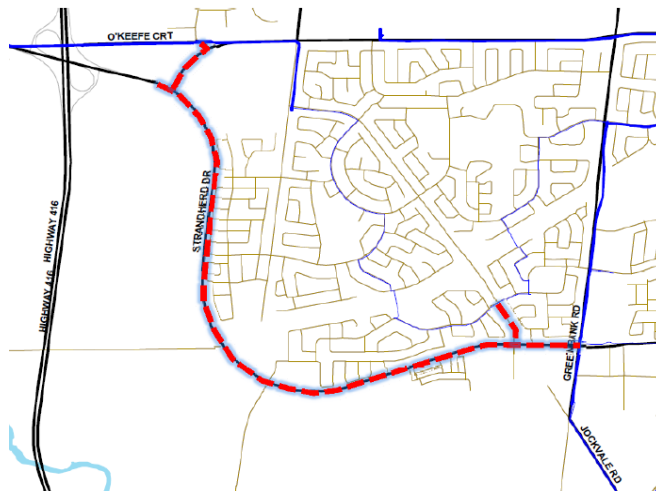
Project Information	Financial Details			
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900632 Strandherd Rd F/M: Greenbank-Fallowfield

Dept: Planning & Growth Management | Category: Growth | Ward: 3 | Year of Completion: 2012

This water main will provide capacity and reliability for continued growth in Barrhaven. It is also a key element of the pressure zone reconfiguration in the South Urban Community. Construction will be coordinated with the South Nepean collector sewer extension.
 This authority is for undertaking the design. Additional authority will be requested in 2013 for construction. The new completion date is estimated to be 2014.

2012 Request	375	Unspent Previous Authority			249
Revenues	-	Rate Supported		37	
Tax Supported/ Dedicated	-	Development Charges		338	
Gas Tax	-	Debt		-	
Forecast	2012	2013	2014	2015	
Authority	375	3,750	-	-	
Spending Plan	530	2,900	944	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

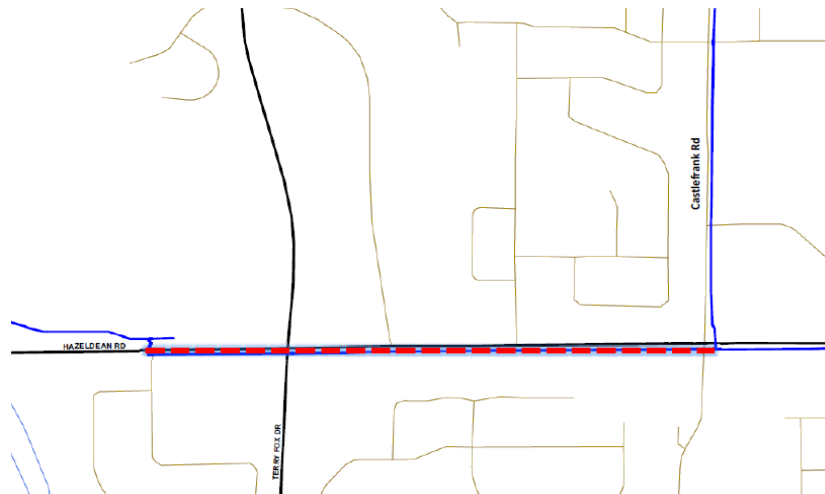
Project Information	Financial Details
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901136 Hazeldean Watermain

Dept: Planning & Growth Management | Category: Renewal of City Assets | Ward: 6,23 | Year of Completion: 2014

This watermain is needed to provide capacity and reliability for continued growth in Kanata and Stittsville. It will replace an existing watermain that is undersized and in poor condition.

2012 Request	6,500	Unspent Previous Authority			-
Revenues	-	Rate Supported			4,830
Tax Supported/ Dedicated	-	Development Charges			1,669
Gas Tax	-	Debt			1
Forecast	2012	2013	2014	2015	
Authority	6,500	-	-	-	
Spending Plan	4,875	1,625	-	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

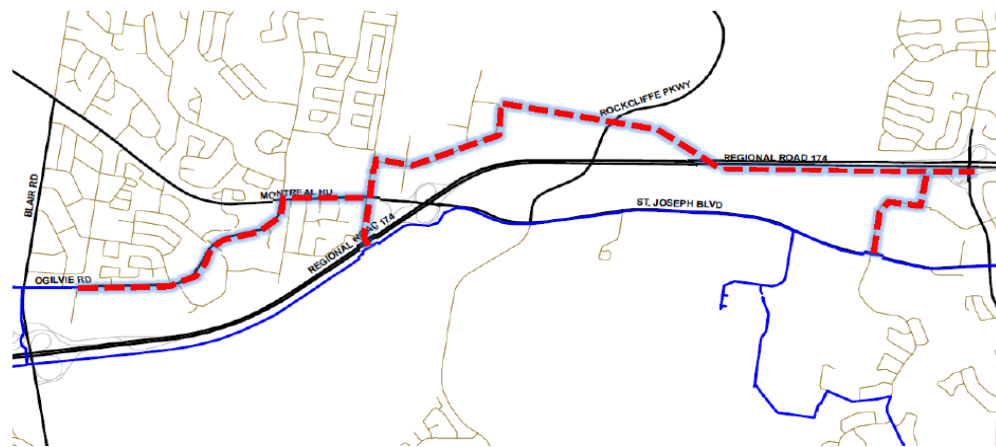
Project Information	Financial Details
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901141 Orleans Transmission Main

Dept: Planning & Growth Management | Category: Renewal of City Assets | Ward: 2 | Year of Completion: 2015

The east segment of the Orleans Watermain Link is primarily needed to provide reliability of supply to the East Urban Community. It is also needed to support continued growth in this area. The added flexibility of a second transmission main will also facilitate maintenance operations. This project was identified in the 1997 Water Master Plan. The need and sizing was confirmed in the City of Ottawa Water Supply System Optimization Study (2007). This high priority project will be designed in 2012, with construction of the first phase in 2013. This authority is for undertaking the design. Additional authority will be requested in 2013 for construction.

2012 Request	750	Unspent Previous Authority			745
Revenues	-	Rate Supported		622	
Tax Supported/ Dedicated	-	Development Charges		128	
Gas Tax	-	Debt		-	
Forecast	2012	2013	2014	2015	
Authority	750	14,250	-	-	
Spending Plan	1,345	8,700	5,700	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

Project Information	Financial Details			
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901183 Trim Road / St Joseph Watermains

Dept: Planning & Growth Management | Category: Growth | Ward: 1 | Year of Completion: 2013

Large diameter watermain along St. Joseph to Trim Road will help to ensure sufficient domestic and fire flows are provided to this area under a variety of demand conditions. In the event that the Forest Ridge Pumping Station is off-line, the proposed St. Joseph and Trim watermains would assist in transferring water from the Orleans Pumping Station to the eastern and southern reaches of Zone 2E. In addition, existing large diameter watermains along Valin and Innes already provide flows to the east, however they are both dependent on a section of watermain along Innes Road. Completing the loop through St. Joseph and Trim will improve the reliability to the eastern boundary of PZ 2E. Design completed in 2011 with construction starting in 2012. A new completion date is estimated to be 2014.

2012 Request	1,168	Unspent Previous Authority		4,630
Revenues	-	Rate Supported		117
Tax Supported/ Dedicated	-	Development Charges		1,051
Gas Tax	-	Debt		-
Forecast	2012	2013	2014	2015
Authority	1,168	-	-	-
Spending Plan	5,506	292	-	-
FTE's	-	-	-	-
Operating Impact	-	-	-	-



City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

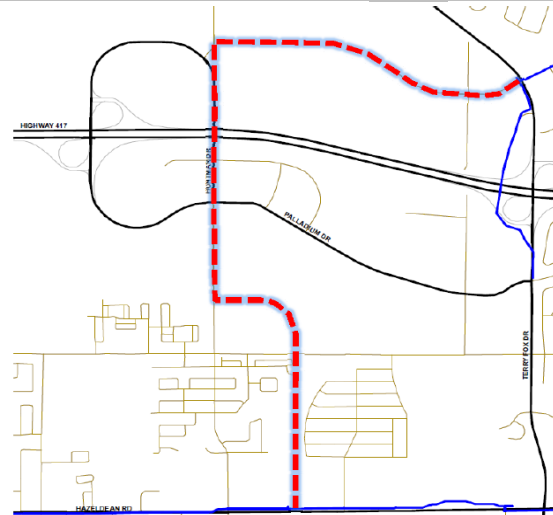
Project Information	Financial Details			
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904297 Kanata West Transmission Mains

Dept: Planning & Growth Management	Category: Growth	Ward: 4	Year of Completion: 2012	
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Based on the City of Ottawa Infrastructure Master Plan, the transmission mains are needed to provide capacity and reliability for continued growth in the West Urban Community. The alignment of these mains are as shown in the Kanata West Master Servicing Study (Stantec, June 2006). This account allows for developer reimbursement for construction. The new completion date is estimated to be 2020.

2012 Request	280	Unspent Previous Authority			379
Revenues	-	Rate Supported		-	
Tax Supported/ Dedicated	-	Development Charges		-	
Gas Tax	-	Debt		280	
Forecast	2012	2013	2014	2015	
Authority	280	280	280	280	
Spending Plan	659	280	280	280	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

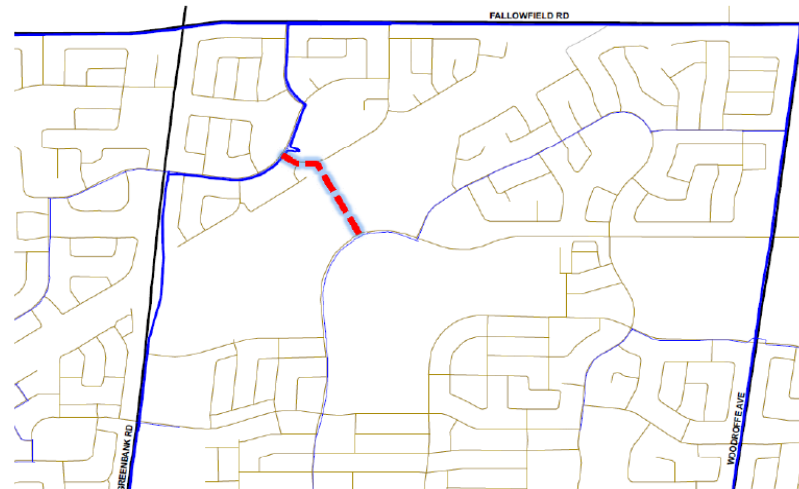
Project Information	Financial Details			
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904981 3C/2W Pressure Zone Separation

Dept: Planning & Growth Management	Category: Growth	Ward: CW	Year of Completion: 2014	
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This project involves the reconfiguration of pressure zones in the South Urban Community to optimize the level of service to existing and future development. The project requires a new watermain to connect the watermains on Foxfield and Longfields Drive. Construction must begin in 2012, in advance of Campanale subdivision servicing work.

2012 Request	1,450	Unspent Previous Authority			450
Revenues	-	Rate Supported		145	
Tax Supported/ Dedicated	-	Development Charges		-	
Gas Tax	-	Debt		1,305	
Forecast	2012	2013	2014	2015	
Authority	1,450	-	-	-	
Spending Plan	1,540	360	-	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2012 Budget

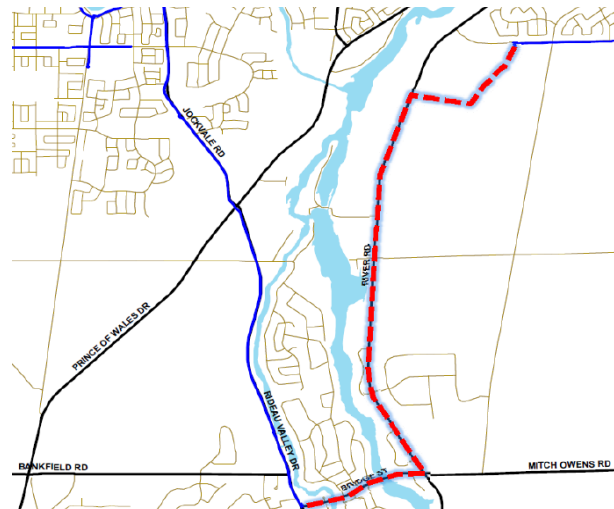
Project Information	Financial Details			
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905992 Manotick Supply Watermain

Dept: Planning & Growth Management | Category: Growth | Ward: 21 | Year of Completion: 2016

A second watermain to Manotick is required to meet the increased water demand as a consequence of growth in Manotick and to provide a redundant source of water under contingency situations. The project was listed in the 2009 Infrastructure Master Plan. The 2012 request is to undertake the design of the watermain. Construction is expected in 2013.

2012 Request	500	Unspent Previous Authority			350
Revenues	250	Rate Supported		250	
Tax Supported/ Dedicated	-	Development Charges		-	
Gas Tax	-	Debt		-	
Forecast	2012	2013	2014	2015	
Authority	500	5,000	-	-	
Spending Plan	725	4,375	750	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



**City of Ottawa
Environment Committee
Capital Program
In Thousands (\$000)**

2012 Budget

Service Area: Wastewater Services							
Category	2012 Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Gas Tax	Rate Supported Reserves	Development Charges	Debt
Renewal of City Assets	38,730	3,831	605	-	32,126	2,155	13
Growth	4,767	-	-	-	313	4,433	21
Regulatory	800	642	-	-	158	-	-
Strategic Initiatives	1,610	37	-	-	1,500	73	-
Total	45,907	4,510	605	-	34,097	6,661	34

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details																					
906323 Lifecycle Renewal Fleet - Wastewater Services																							
Dept: Public Works	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various																				
<p>This program provides funding authority for Municipal vehicle and equipment scheduled for replacement, life extension, modification, or major repair. The timely replacement of vehicles and equipment that have reached their life expectancy, or are no longer suitable or economical to operate, helps ensure the provision of a cost-effective fleet service. Vehicles and equipment replacement decisions are guided by the ongoing study of the condition of each vehicle, its application, its safety, and an assessment of its remaining useful life. All vehicles and equipment scheduled for replacement are inspected and evaluated to confirm the requirement. Commitments for vehicle purchases must be made at least one year prior to delivery. Further information on the replacement plan is contained in the 2012 Municipal Fleet Replacement Plan which was approved by ACS2011-COS-PWS-0013 .</p> <p>This project is part of a program that flows across Service Areas which consists of the following:</p> <table border="0"> <tr> <td>Fire Services</td> <td>\$ 5,359</td> </tr> <tr> <td>Paramedic Services</td> <td>\$ 2,546</td> </tr> <tr> <td>By-Law Services</td> <td>\$ 157</td> </tr> <tr> <td>Transportation Services - Roadways</td> <td>\$10,449</td> </tr> <tr> <td>Parks & Recreation</td> <td>\$ 37</td> </tr> <tr> <td>Fleet Services</td> <td>\$ 385</td> </tr> <tr> <td>Solid Waste</td> <td>\$ 3,795</td> </tr> <tr> <td><u>Wastewater Services</u></td> <td><u>\$ 605</u></td> </tr> <tr> <td>Water Services</td> <td>\$ 1,300</td> </tr> </table>	Fire Services	\$ 5,359	Paramedic Services	\$ 2,546	By-Law Services	\$ 157	Transportation Services - Roadways	\$10,449	Parks & Recreation	\$ 37	Fleet Services	\$ 385	Solid Waste	\$ 3,795	<u>Wastewater Services</u>	<u>\$ 605</u>	Water Services	\$ 1,300	2012 Request	605	Unspent Previous Authority		91
	Fire Services	\$ 5,359																					
	Paramedic Services	\$ 2,546																					
	By-Law Services	\$ 157																					
	Transportation Services - Roadways	\$10,449																					
	Parks & Recreation	\$ 37																					
	Fleet Services	\$ 385																					
	Solid Waste	\$ 3,795																					
	<u>Wastewater Services</u>	<u>\$ 605</u>																					
	Water Services	\$ 1,300																					
Revenues	-	Rate Supported		-																			
Tax Supported/ Dedicated	605	Development Charges		-																			
Gas Tax	-	Debt		-																			
Forecast	2012	2013	2014	2015																			
Authority	605	1,083	770	755																			
Spending Plan	696	1,083	770	755																			
FTE's Operating Impact	-	-	-	-																			

Project Information		Financial Details			
902142 ORAP - ROPEC - Effluent Dechlorination					
Dept: Environmental Services	Category: Regulatory	War: 11	Year of Completion: 2012		
The Robert O. Pickard Environmental Centre treats all of the City's wastewater and has a replacement value estimated at over \$1.2 billion. Anticipated changes to the Canadian Environmental Protection Act to mandate treated effluent discharges with no residual chlorine concentrations have necessitated this project. This project is 1 of 17 ORAP projects.	2012 Request	800	Unspent Previous Authority		2,254
	Revenues	642	Rate Supported		158
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	800	-	-	-
	Spending Plan	3,054	-	-	-
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-
	905757 Monahan Constructed Wetland Rehab.				
Dept: Environmental Services	Category: Renewal of City Assets	War: 23	Year of Completion: 2019		
The City of Ottawa completed an assessment of the condition of this facility with a recommended strategy to address issues affecting erosion, stability, water quality, maintenance and aesthetics. The work includes expansion of the facility to meet current City standards. This request will address existing operation problems. Included in the works is increased capacity to current standards, modification and Hopeside Road culvert upgrade. New completion date of 2013.	2012 Request	900	Unspent Previous Authority		1,891
	Revenues	-	Rate Supported		900
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	900	-	-	-
	Spending Plan	2,791	-	-	-
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

Project Information		Financial Details				
906630 Wastewater Master Drawings Upgrades						
Dept: Environmental Services	Category: Renewal of City Assets	War	CW	Year of Completion: 2016		
Critical drawings such as Process & Instrumentation Control Drawings (PID, electrical and mechanical drawings are required to safely operate and maintain the ROPEC treatment facility and the remote collection facilities. This project is required to update these critical drawings.	2012 Request	450	Unspent Previous Authority		-	
	Revenues	-	Rate Supported		450	
	Tax Supported/ Dedicated	-	Development Charges		-	
	Gas Tax	-	Debt		-	
	Forecast	2012	2013	2014	2015	
	Authority	450	250	100	-	
	Spending Plan	450	250	100	-	
	FTE's	-	-	-	-	
	Operating Impact	-	-	-	-	
	906577 Wastewater Drainage Roofing 2012					
Dept: Environmental Services	Category: Renewal of City Assets	War	CW	Year of Completion: 2015		
The City of Ottawa owns and operates 137 Wastewater Collection and Treatment facilities, made up of 17 major operating buildings and 120 remote sites in support of the wastewater management program. Roof replacements at the end of their life span typically on a 20 to 25 year cycle, form part of the planned maintenance of these wastewater treatment facilities and pumping stations. The up-keep and replacement of these roofs is paramount in ensuring that the work environment of these facilities is kept safe, warm and dry.	2012 Request	150	Unspent Previous Authority		573	
	Revenues	-	Rate Supported		150	
	Tax Supported/ Dedicated	-	Development Charges		-	
	Gas Tax	-	Debt		-	
	Forecast	2012	2013	2014	2015	
	Authority	150	180	30	40	
	Spending Plan	723	180	30	40	
	FTE's	-	-	-	-	
	Operating Impact	-	-	-	-	

Project Information		Financial Details			
905788 ORAP-Public Education & Outreach					
Dept: Environmental Services	Category: Strategic Initiatives	War: CW	Year of Completion: 2015		
Inform the public of the linkages between what they do and the health of the water environment; and increase awareness of Ottawa River Action Plan initiatives.	2012 Request	75	Unspent Previous Authority		150
	Revenues	37	Rate Supported		38
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	75	75	75	75
	Spending Plan		75	75	75
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details				
Wastewater & Stormwater Collection						
Dept: Environmental Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various			
<p>The Wastewater & Stormwater Collection Rehabilitation Program addresses annual condition assessment, replacement, rehabilitation and capitalized maintenance requirements to preserve and extend the life of the infrastructure, reduce flooding occurrences, and prevent failures requiring more extensive reconstruction. The program is focused on:</p> <ul style="list-style-type: none"> • Flood Mitigation; • Proactive life cycle renewal and rehabilitation projects; • Level of service initiatives; • System improvements and optimization; • Upgrades and rehabilitation to support growth demand; • Miscellaneous local repairs. <p>Program funding requirements to support renewal needs are defined in the long range financial plan. Budget allocation for these programs are adjusted to reflect change in needs and affordability envelopes. The 2012-2014 forecast is based on bulk allocations that will be detailed in future budget submissions.</p> <p><u>Major 2012 Projects</u> 2012 - Collection System Condition Assessment Strategy(\$0.4M) 2013 - Collection System Condition Assessment (\$1.1M) 2012 - Linear Sewage System Improvements (\$2.2M) 2012 - Flow Monitoring (\$1.2M) 2012 - Sewage Pumping Station Rehab (\$2.5M) 2012 - Sewer Lateral Rehabilitation(\$5.1M)</p>		2012 Request	6,225	Unspent Previous Authority		10,034
		Revenues	-	Rate Supported		6,195
		Tax Supported/ Dedicated	-	Development Charges		30
		Gas Tax	-	Debt		-
		Forecast	2012	2013	2014	2015
		Authority	6,225	10,071	11,054	13,033
		Spending Plan	16,259	10,071	11,054	13,033
		FTE's	-	-	-	-
		Operating Impact	-	-	-	-

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
902140 Sewage Pumping Station Rehab. Program	CW		1,425
<p>The City wastewater collection system currently includes 79 pumping stations and related buildings. This project provides the funding envelop for the operational studies, condition assessment and life-cycle rehabilitation and replacement of critical components such as mechanical, electrical stand-by power and facility odour & corrosion control equipment in order to ensure operational efficiency, continued reliability and environmental protection.</p>			
904141 Sewer Lateral Repairs	CW		4,100
<p>The sewer collection systems include 200,000 service connections, i.e. the sewer pipe between a building and the sewermain. When a house experiences a sewer backup due to a sewer lateral failure, every effort is made to minimise property damage by unblocking the lateral and putting it back in service. The service lateral remains un-repaired. This project enables the City to pro-actively investigate the cause of the failure and properly rehabilitate or replacement sewer laterals. In 2012 additional resources have been allocated to the program to reduce the current backlog in the sewer lateral investigation and repairs cases.</p>			
905806 Flow Monitoring System Rehab. Program	CW		300
<p>This project focuses on the installation of flow monitoring elements within the existing wastewater collection system so that operating staff will have a better understanding of the dynamics of the wastewater collection system to permit more informed decision-making on system operations. It will be particularly useful during periods of high flow. The project also allows for future replacement and upgrading of existing key flow measurement elements over the next 5 years.</p>			
906671 Collection Sys. Condition Assesment Prog	CW		400
<p>This project will provide the funding envelope to conduct proactive condition assessment investigations of the Sewage Collection system's key collector & conveyance trunk mains and their related appurtenances (i.e. manholes, access chambers). These collectors are critical to reliable conveyance and management of sewerage capacity for large portions of the urban population. In 2012, activities will focus on developing a comprehensive risk based strategy to conduct condition assessment. Assessing inspection technology and approaches. The proactive field condition assessment program will be initiated in 2013 as an annual program.</p>			

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Wastewater Treatment-Renewal					
Dept: Environmental Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Robert O. Pickard Environmental Center (ROPEC) treats all of the City's wastewater and has a replacement value of over \$1.2 billion. The objective of this program is to manage the lifecycle replacement and capitalized maintenance costs of this asset. Projects under this program will maintain or extend the life of the plant processes and equipment.</p> <p><u>Major 2012 Projects</u> Treatment Plant Upgrades - condition assessment studies, pump equipment life-cycle replacements, monitoring equipment replacements electrical equipment replacements (\$9M) ROPEC Operations Buildings Upgrades including roofing & building repairs and space optimization upgrades(\$3.6M) Primary Clarifier Upgrades (\$1.75M) Primary Treatment Sluice Gate & Concrete structural repairs (\$4M) Power Plant Upgrades - Generator life-cycle replacement (\$1.45M) Sewage Digester Repairs (\$4M) Effluent De-chlorination completion & commissioning(\$3M)</p>	2012 Request	13,600	Unspent Previous Authority		17,930
	Revenues	-	Rate Supported		11,567
	Tax Supported/ Dedicated	-	Development Charges		2,025
	Gas Tax	-	Debt		8
	Forecast	2012	2013	2014	2015
	Authority	13,600	15,000	11,950	36,350
	Spending Plan	31,530	15,000	11,950	36,350
	FTE's Operating	-	-	-	-
	Impact	-	-	-	-

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
905756 ROPEC - Sluice Gates & Concrete Repairs	11		2,000
<p>The screening & degrit facility provides the required preliminary treatment at the Pickard Centre. Life-cycle replacement of 22 isolation gates is required. The existing gates have become difficult to operate due to corrosion which interferes with carrying out maintenance to ensure appropriate delivery of service. Gate replacement is expected to cost approximately \$3 million. Significant repairs to concrete channels and tank walls are also required. Rapid deterioration of the concrete has been identified. Concrete repair work is estimated to be \$1 million. This additional authority, when combined with existing authority, will satisfy project requirements.</p>			
906186 ROPEC - Sewage Treatment Rehabilitation Program	11		3,000
<p>Ongoing capital investment is required to ensure efficient process operation, maintain asset functionality through equipment overhauls, adapt to changing regulations and take advantage of new technologies. Typical projects include process optimization studies, asset rehabilitation and upgrades to plant processes and systems. Project justification will be based on economic benefits or regulatory compliance. 2012 Scope of Works: Concrete rehabilitation secondary clarifiers. Various capitalized maintenance projects throughout the plant.</p>			
906195 Lab Equipment Purchases/Replacement	11		100
<p>Laboratory Services are provided to the Environmental Services Branch by a centralized group. Analytical equipment required to support this function have a life cycle of approximately 5-10 years. This project provides for an equalized replacement schedule of this highly specialized and automated equipment. This replacement is necessary in order to maintain service and quality levels related to laboratory licensing and accreditation as required by Ontario's Safe Drinking Water Regulations.</p>			
906670 ROPEC Treatment Facility Develop. Plan	CW		500
<p>The primary objective of the ROPEC Sewage Treatment Development Plan (RSTDP) is to provide documentation of the long term planning of improvements and upgrades requirement for the treatment facilities to meet current and future needs for Ottawa's sewage treatment. The RSTDP shall provide a prioritized list of improvements and upgrades for ROPEC based on a risk benefit approach considering both operational and capital costs as well as future regulatory changes, long-term water quality discharge objectives and treatment capacity forecasts. The development plan is necessary element which will support the upcoming Infrastructure Master Plan update requirement.</p>			
905005 Rehabilitation of Digester 1 to 4	11		200
<p>The existing digesters 1-4 have been in continuous operations for 20 years. With the commissioning of digesters 5 & 6, there is now sufficient operational flexibility to consider alternate, more efficient means of digester mixing for digesters 1-4. This authority will allow for the completion of a feasibility study on digester mixing, which will improve gas production, mixing and grit suspension.</p>			

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906645 ROPEC - Primary Clarifier Upgrades	CW		1,750
<p>ROPEC has a total of fifteen(15) primary clarifiers equipped with chain & flight mechanisms for the collection of thickened primary sludge. All clarifiers were retrofitted or newly built in the 1992 with a site wide facility expansion. This equipment normally has a design life of less than 15 years, and the end of the useful service life has been reached. Replacement of the collection mechanisms across all of the primary clarifiers is required to avoid risk of potential odours release and major process upsets. The replacement will start in the fall of 2012 and continue into 2013. (4.2M\$)</p>			
906646 ROPEC Aeration Piping & Diffusers Replacement	CW		400
<p>ROPEC has eight(8) open, rectangular, deep aeration tanks with 2226 diffusers per tank which transfer air(oxygen) to the biological activated sludge process. The units were installed in 1992 with a design life of less than 15 years. The equipment has reached the end of the useful service life and need to be replaced in 2012 in order to maintain current operational of the system. Design of the new system will be completed in 2012 and replacement of the units would be completed over the following three years.</p>			
906647 ROPEC - Scum Removal Facility Replacement	CW		400
<p>The scum handling facilities of the primary treatment facilities are creating operational difficulties which are being addressed at significant annual operational costs. Design of the new scum removal system will be completed in 2012 and construction would be completed in 2013 and then eliminating the annual scum removal costs.</p>			
906648 ROPEC - Power Cogeneration Plant Upgrade	CW		1,450
<p>ROPEC produces 2430 KW by way of three 810 KW electrical methane gas burning engines driving electrical generators. The equipment is needed to effectively supplement power supply from electric power grid which is required to operate the sewage treatment facility. The generators on the three units are in need of major overhauls. The addition of a spare generator will allow a overhaul replacement of a generators on each unit in a sequential fashion.</p>			

City of Ottawa
Service Area: Wastewater Services
 In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906649 Hauled Waste/Septage Receiving Facility	CW		400
<p>The existing facilities that currently receive hauled liquid waste are in need of improvement to existing controls to verify, monitor and accept the septage volumes. The new facility design is to improve the verification and inspection processes as well as permit removal of solids (gravel, etc) and other potential contaminants which many impact the wastewater treatment facility. The facility will be designed in 2012 and constructed in 2013.</p>			
906650 ROPEC - Process Facility – Environment Systems Upgrades	CW		600
<p>The environmental control systems (i.e. HVAC ventilation) are reaching the end of their useful life. The existing components of the various atmospheric and process ventilators are outdated and repair parts are not available. A comprehensive condition assessment will be completed in 2012 and then the prioritized repairs will be completed on a multi year approach.</p>			
906643 ROPEC - Operational & Technical Bldg Space Upgrades	CW		2,600
<p>A space optimization study has identified the upgrades to the Technical and Operations Buildings within the ROPEC complex to accommodate staff growth approved in 2010/11 in the waste water collection and treatment plant operational areas. The work space accommodations retrofit within the existing floor space footprint will be completed 2012.</p>			
903438 ROPEC East Boiler Plant Upgrade	11		200
<p>Based on a completed condition assessment report the East Boiler Plant has approximately 5 year of remaining life. The refurbishing costs of the boiler plant equate to estimated cost for the acquisition and installation of a new unit. The identified project budget is to complete the design of a new boiler plant system with an anticipated replacement in 2015/16.</p>			

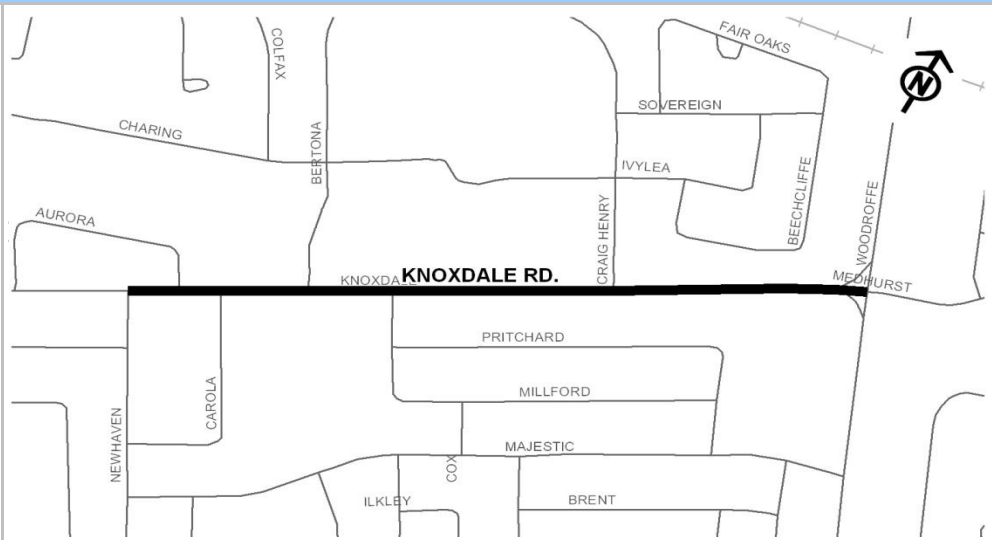
City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Sanitary Sewer Rehabilitation					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Sanitary Sewer Rehabilitation Program addresses annual rehabilitation requirements for the City's wastewater collection system to extend the life of the infrastructure, provide continued service, mitigate property flooding and prevent failures requiring more extensive reconstruction. The program is focused on:</p> <ul style="list-style-type: none"> • Proactive life cycle renewal and rehabilitation projects; • Level of service initiatives; • System improvements and optimization; • Miscellaneous upgrades and rehabilitation to support growth demand; • Miscellaneous local repairs. <p>Program funding requirements to support renewal needs are defined in the Long Range Financial Plan. Actual budget allocations for these programs are adjusted to reflect change in needs and affordability envelopes. Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p> <p>The funding requests for wastewater costs coordinated with roadway, stormwater or watermain rehabilitation are included within the Integrated Rehabilitation Programs.</p> <p>Detailed information and costs associated with specific stand alone (non-integrated) components and projects are provided following this program summary page.</p> <p>2012 Spending Plan authority includes allocations for existing ongoing initiatives related to the ORAP program including the EA and functional design for Combined Sewer Overflow Storage, Inlet Control Devices in the UCSA and Critical Outfall flow monitoring components of the program as well as new funding request for works associated with the Acres Road Pump Station and Knoxdale Road sewer renewal .</p>	2012 Request	1,450	Unspent Previous Authority		25,609
	Revenues	231	Rate Supported		1,218
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		1
	Forecast	2012	2013	2014	2015
	Authority	1,450	10,500	133,500	7,500
	Spending Plan	27,059	10,500	133,500	7,500
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa
Service Area: Wastewater Services
 In Thousands (\$000)

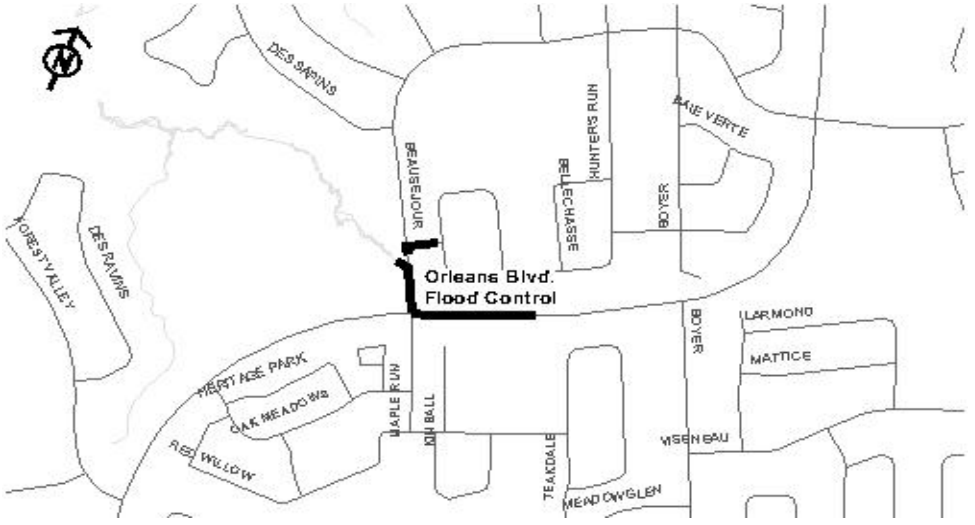

2012 Budget

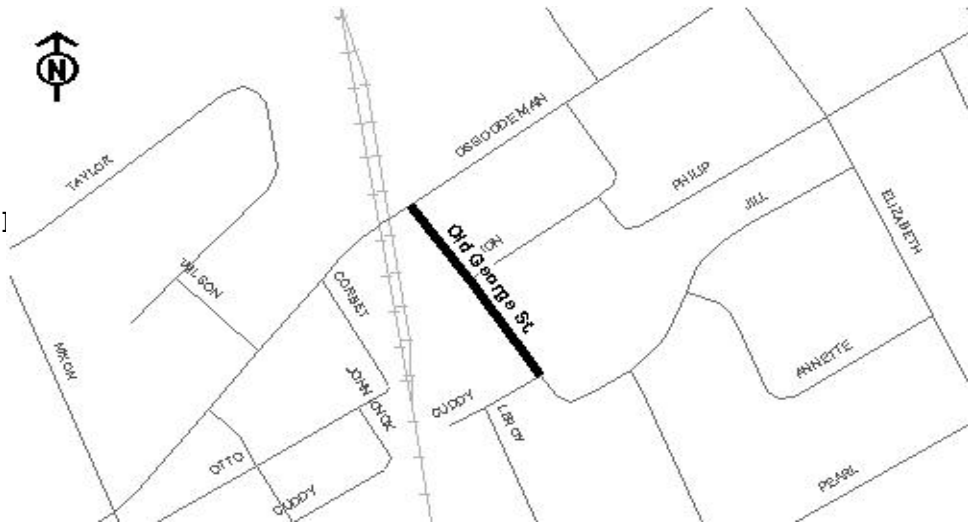
Project	Ward	Location/Description	\$000's
905515 Knoxdale Road (Woodroffe - Newhaven)	9		500
<p>This project provides for the sanitary sewer renewal in Knoxdale Road. The current authority provides for completing the construction of the replacement of the existing sanitary sewers to improve the system capacity and house service connections will be replaced to the property line. The project scope does not extend to the full right-of-way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by the trench works will be reinstated as part of the scope of the project. The reinstated conditions will be monitored and considered as part of an annual roadway needs assessment and renewal programming as required.</p>			
905053 ORAP-Critical Outfall Monitor Initiative	CW		700
<p>The allocation will be directed towards the completion and implementation of all critical flow chambers, primarily those with high likelihood of direct discharge to the Ottawa River. This will provide a level of service that will allow for regulatory reporting to the Ministry and ensure that a consistent and reliable source of monitoring is available.</p>			
906496 Acres Pump Station Overflow	20		250
<p>This project provides funding to optimize the configuration of the overflow with respect to the pump station to improve reliability and to minimize operations. This project is comprised of upgrading to flow monitoring equipment, repairing an overflow gate and upgrading control and data acquisition equipment at the pump station.</p>			

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Stormwater Collection Rehabilitation					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Stormwater Collection Rehabilitation Program addresses annual rehabilitation and operational capital requirements for the City's stormwater collection system in order to preserve and extend the life of the infrastructure, reduce flooding occurrences and prevent failures requiring more extensive reconstruction. The program is focused on:</p> <ul style="list-style-type: none"> • Flood mitigation; • Proactive life cycle renewal and rehabilitation projects; • Level of service initiatives; • System improvements and optimization; • Miscellaneous upgrades and rehabilitation to support growth demand; • Miscellaneous local repairs. <p>Program funding requirements to support renewal needs are defined in the Long Range Financial Plan. Actual budget allocations for these programs are adjusted to reflect change in need and affordability envelopes. Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p> <p>The funding requests for stormwater costs coordinated with roadway, wastewater or water rehabilitation are included within the Integrated Rehabilitation Programs.</p> <p>Detailed information and costs associated with specific stand alone (non-integrated) components and projects are provided following this program summary page.</p> <p>2012 Spending Plan authority includes allocations for existing ongoing initiatives related to Orleans Flood Control Remediation Works as well as new funding requests for Stormwater Improvements in Old George Street, repair of the Rickey Place Retaining Walls and improvements for the Holmwood drainage area.</p>	2012 Request	4,650	Unspent Previous Authority		4,071
	Revenues	100	Rate Supported		4,548
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		2
	Forecast	2012	2013	2014	2015
	Authority	4,650	350	350	350
	Spending Plan	8,721	350	350	350
	FTE's Operating	-	-	-	-
	Impact	-	-	-	-

Project	Ward	Location/Description	\$000's
<p>904567 Orleans Flood Control Remediation</p> <p>The 2008 Orleans flood report identified these areas as being at risk of excess ponding. During the rainfall events of June 2011 Orleans Boulevard just east of Beausejour Dr. had to be closed due to excessive ponding. Also, residents on Hunters Run have experienced large and deep ponding on their street after significant rainfall events. The project will implement a high level storm system and surface drainage improvements to reduce ponding levels and improve the level of service. The project scope does not extend to the full right-of-way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by the trench works will be reinstated as part of the scope of the project. The reinstated conditions will be monitored and considered as part of an annual roadway needs assessment and renewal programming as required.</p>	<p>1</p>	 <p>A street map of the Orleans area in Ottawa. A thick black line highlights a section of Orleans Boulevard, labeled 'Orleans Blvd. Flood Control'. The map shows a network of streets including Des Saps, Beausejour, Hunters Run, Bellechasse, Boyer, and Rue Verte. Other streets shown include Forest Valley, Des Rains, Westgate Park, Oak Meadows, Red Willow, Maple Run, In Ball, Teakdale, Mendonville, Visenbau, Larmond, and Mattice.</p>	<p>500</p>
<p>906636 Rickey PI Park Retaining Wall rehab</p> <p>In April 2011 a large armour stone wall at the pedestrian bridge crossing on the Carp River between Castlefrank Rd. and Rickey Place failed. Upper blocks of the wall fell into the river resulting in instability of the entire bank in addition to erosion which was noted beneath the two supports of the pedestrian bridge. Following a geomorphic/hydraulic assessment of the Carp River reach between Castlefrank Road and Rickey Place recommends for renewal of the armour stone wall, introduction of a low flow channel and erosion protection of impacted areas. The next step is to carry out a detailed design and construction of the recommended works.</p>	<p>23</p>	 <p>A street map of the Rickey Place area in Ottawa. A thick black line highlights a section of Rickey Place, labeled 'Rickey Place Park Retaining Wall'. The map shows streets including Castlefrank, Wickitack, Banbury, Rickey, Melanie, Summer, Sutherland, and Sutherland. Other streets shown include Seabrook, Barra, Winchester, and Sutherland.</p>	<p>1,000</p>

Project	Ward	Location/Description	\$000's
906637 Old George St (Osgoode Main-Cuddy)	20		1,000
<p>The project provides funding to improve drainage and rebuild sidewalks.</p>			
906495 Ditch Alts - Assess/Implement – 2012	CW		150
<p>Council endorsed a policy and associated process to manage ditch alteration requests in a consistent manner (July 9, 2008 -ACS2008-PWS-INF- 0008). Technical assessments are necessary to provide the design support to secure an Ministry of Environment Certificate of Approval. The City has the technical resources, experience and established processes to effectively manage design and construction processes. The policy provides for the City to review, design and construct the works with the costs to be recovered from property owners after implementation. This annual funding request provides for anticipated costs of the technical assessments and budget to tender any approved implementations.</p>			
906644 Stormwater Improvements – Holmwood Area	7		2,000
<p>The Holmwood Area is part of the O'Connor Combined Sewer Area. Through the Bank Street Reconstruction Project, the City undertook some reconfiguration of the combined sewer system and has re-diverted parts of the flows previously directed to the Preston Combined Sewer Area to the O'Connor Combined Sewer Area. In doing so this has imposed a new constraint on the stormwater management for the Lansdowne site. This constraint has resulted in the need for increased storage on site to accommodate this change. Stormwater discharge from the Lansdowne site is also significantly constrained due to reduced release rates to the Rideau Canal and the O'Connor combined sewer, also resulting in the need for increased storage on site. Funding is to cover these increases in storage requirement.</p>			

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Structures-Wastewater					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Structures Program provides for condition assessments, preventative maintenance, rehabilitation and reconstruction works undertaken on the City's existing bridges, culverts, pedestrian overpasses and retaining wall systems.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p> <p>Detailed information and costs associated with specific components and projects directly follows this program summary page.</p>	2012 Request	6,700	Unspent Previous Authority		5,049
	Revenues	-	Rate Supported		6,698
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		2
	Forecast	2012	2013	2014	2015
	Authority	6,700	5,490	5,100	5,200
	Spending Plan	11,749	5,490	5,100	5,200
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906478 Scoping Pre/Post Drain Culverts 2012	CW		400
<p>Scoping and design briefs are necessary to adequately define conditions, coordinate requirements and scope projects prior to initiating design stages. Detailed condition assessment, structure evaluation, drainage studies, Species-at-Risk screening and lifecycle based renewal options analysis are key components of this work. The outcomes of this work inputs into the design and construction phases of the project delivery processes. Post construction funding is required to address assessments and planned/unexpected adjustments outside the original implementation funding envelopes. Design and construction authority requests will be programmed as part of future capital budgets once these initiatives are complete and project scope is fully defined.</p>			
906482 Drainage Culverts (<=1M) 2012	CW		1,100
<p>The City has a significant inventory of drainage culverts ranging from small diameter roadway culverts (typically non-urbanized ditch drainage under roadways and intersections) to larger span drainage structures. This project provides funding to address the most critical needs for this asset group.</p>			
906483 Drainage Culverts - Resurfacing 2012	CW		740
<p>This program provides authority for replacing culverts located within the roads that are scheduled for resurfacing in the near future in advance of the resurfacing work. These culverts are in poor condition and expected to reach a state of affecting road functionality. The culvert replacement ahead of the roadwork is part of the coordinated approach to Transportation Asset Renewal.</p>			
906484 Drainage Culverts - Site Specific 2012	CW		1,000
<p>This project provides the authority to undertake engineering, design and construction of renewal works that are not budgeted through any other renewal program that arise over the course of the year. Many of the culvert assets have reached, or will reach the end of their service life and thus increased number of reactive replacements is anticipated.</p>			

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906479 Drainage Culverts (1m-3m) 2012	CW		3,460
<p>The City has a significant inventory of drainage culverts with spans of 1m to 3m (typically non-urbanized ditch drainage under roadways and intersections). This project provides funding to address the most critical needs for this asset group.</p>			
Corkstown Rd Twin Culvert	7	0.46 km W of Moodie Dr OF Con 1 Lot 10	
Boundary Rd Culvert	19	0.40 km N of Russell Rd Con 11 Lot 16	
Stone School Rd Twin Culvert	20	2.23 km W of Bank St Con 5 Lot 15/16	
Malakoff Rd Culvert	21	3.80 km S of Century Rd W Con 7 Lot 3	
Shea Rd Culvert 0.90 km N of CR10	21	0.90 km N of CR10 Con 4 Lot 25/26	
Ramsayville Rd @ 8th Line Rd Culvert	20	4.2 km N of Mitch Owens Rd RF Con 8 Lot 20	
River Rd Culvert	22	4.10 km N of Mitch Owens Rd Con BF Lot 21	
Bank St [Old Hwy 31]	10	0.50 km N of Conroy Rd RF Con 4 Lot 13	
Bank St [Old Hwy 31]	10	1.95 km N of Conroy Rd RF Con 4 Lot 8	
Prince of Wales Dr	21	2.10 km N of Bankfield Rd RF Con 2 Lot 4	
Dalmeny Rd Culvert [888150]	20	2.75 km E of Stagecoach Rd Con 3 Lot 35/36	
Lawrence St	20	0.60 km E of Bank St	
Tenth Line Rd Culvert	19	1.25 km N of Navan Rd Con 10/11 Lot 6	
Tenth Line Rd Culvert	19	1.15 km N of Navan Rd Con 10/11 Lot 6	
Tenth Line Rd Culvert	19	0.55 km N of Navan Rd Con 10/11 Lot 7	
Thomas Dolan Pkwy Culvert	5	2.25 km W of Carp Rd Con 8 Lot 1	

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Program Information		Financial Details				
Wet Weather Program - Rate						
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various			
<p>Wet Weather Infrastructure Program</p> <p>The Infrastructure Services Department is preparing a detailed and comprehensive Wet Weather Infrastructure Management Plan (WWIMP) to address development of an overall approach to wet weather flow management within the urban area. The WWIMP will investigate identified problem areas and implement high impact programs in those areas. The WWIMP will also provide recommendations on general concerns such as design standards for components of the system and climate change adaptation. This project supports the overall implementation objectives of the Ottawa River Action Plan.</p> <p>2012 Spending Plan authority includes allocations for existing ongoing initiatives related to Development of the Wet Weather Infrastructure Management Plan under the ORAP initiative as well as new funding request to initiate design details for individual components of the plan.</p>		2012 Request	1,900	Unspent Previous Authority		4,583
		Revenues	1,500	Rate Supported		400
		Tax Supported/ Dedicated	-	Development Charges		-
		Gas Tax	-	Debt		-
		Forecast	2012	2013	2014	2015
		Authority	1,900	1,900	1,900	1,900
		Spending Plan	6,483	1,900	1,900	1,900
		FTE's	-	-	-	-
		Operating Impact	-	-	-	-

City of Ottawa
Service Area: Wastewater Services
 In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
904939 ORAP-Wet Weather IMP - Flow Reduction	CW		1,500
<p>The Infrastructure Services Department is preparing a detailed and comprehensive Wet Weather Infrastructure Management Plan (WWIMP) to address development of an overall approach to wet weather flow management within the urban area. The WWIMP will investigate identified problem areas and implement high impact programs in those areas. The WWIMP will also provide recommendations on general concerns such as design standards for components of the system and climate change adaptation. This project supports the overall implementation objectives of the Ottawa River Action Plan.</p>			
906493 Inlet Control Devices - CW 2012	CW		400
<p>This project involves implementing the installation of Inlet Control Devices into the catch basins of various areas in the City. The intent is to reduce the opportunity of sewer surcharge during major rainfall events and to diminish the incidences of basement flooding as a result of sewer surcharge.</p>			

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Project Information	Financial Details			
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903345 Kanata West Pumping Station & Forcemain

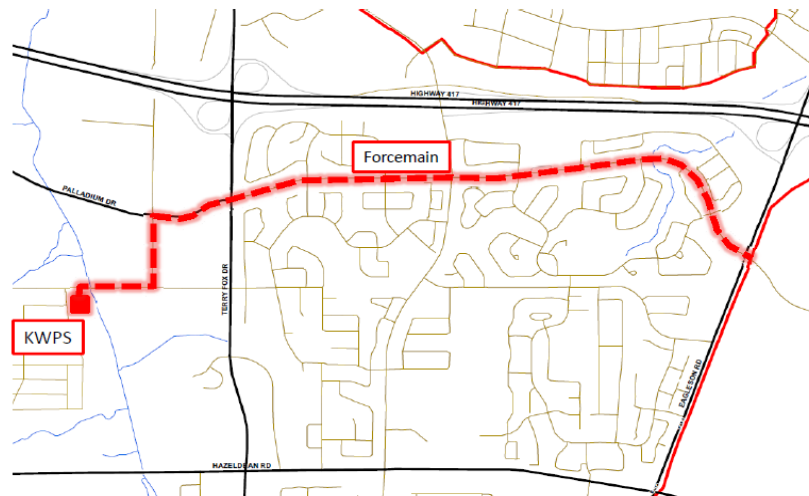
Dept: Planning & Growth Management | Category: Growth | Ward: 4 | Year of Completion: 2017

The Kanata West Pumping Station (KWPS) and associated forcemains were identified in the Kanata West Master Servicing Study as requirements to service growth in the Kanata West area south of Highway 417, and to intercept drainage in existing development areas in the Stittsville area north of Hazeldean Road, currently serviced by the Hazeldean Pump Station.

The timing of the construction and commissioning of the KWPS and forcemains is based on the capacity of the Hazeldean PS to service this growth area on an interim basis. It is anticipated that the KWPS and forcemains will need to be commissioned around 2015, depending on build out rates in Kanata West and the Fernbank / Stittsville area.

This authority is required for undertaking the design. The 2013 and 2014 budget will include the construction requirements.

2012 Request	1,750	Unspent Previous Authority			553
Revenues	-	Rate Supported		175	
Tax Supported/ Dedicated	-	Development Charges		1,575	
Gas Tax	-	Debt		-	
Forecast	2012	2013	2014	2015	
Authority	1,750	556	19,250	-	
Spending Plan	1,428	1,431	9,625	9,625	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

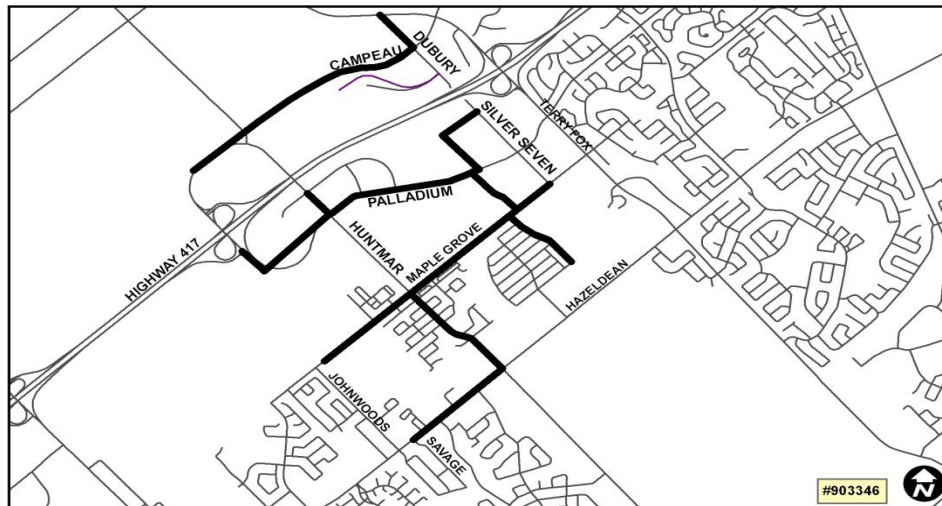
Project Information	Financial Details			
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903346 Kanata West Sewer Oversizing

Dept: Planning & Growth Management | Category: Growth | Ward: 4 | Year of Completion: 2018

The City of Ottawa Infrastructure Master Plan has identified the need for trunk sanitary sewers for the entire Kanata West development area and are shown in the Kanata West Master Servicing Study (Stantec, June 2006). This account is required for reimbursing developers for constructing oversized sanitary sewers within this system at locations as identified on an as needed basis through the development review process. The Development Charge By-Law requires the City to pay developers for the oversizing of sanitary sewers which are constructed in a given year.

2012 Request	500	Unspent Previous Authority			500
Revenues	-	Rate Supported		-	
Tax Supported/ Dedicated	-	Development Charges		500	
Gas Tax	-	Debt		-	
Forecast	2012	2013	2014	2015	
Authority	500	500	500	525	
Spending Plan	1,000	500	500	525	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

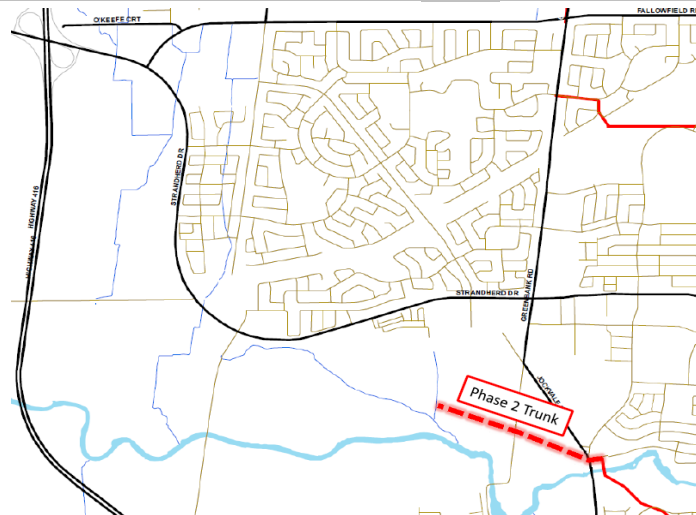
Project Information	Financial Details			
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904984 South Nepean Collector Ph 2

Dept: Planning & Growth Management | Category: Growth | Ward: 22 | Year of Completion: 2017

An additional sanitary trunk sewer is required to service growth in the South Nepean Community. This is a staged project to extend sewer service in the South Nepean Urban Area. Phase 2 extends from the existing manhole at Jockvale Road just north of Jock River to the east side of the existing Kennedy Burnett Stormwater Management Facility. This portion of the sewer is located in the planned South Nepean Town Centre. This authority is for undertaking the design. Additional authority will be requested in 2013 for construction.

2012 Request	300	Unspent Previous Authority			-
Revenues	-	Rate Supported			29
Tax Supported/ Dedicated	-	Development Charges			270
Gas Tax	-	Debt			1
Forecast	2012	2013	2014	2015	
Authority	300	2,700	-	-	
Spending Plan	300	2,025	675	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

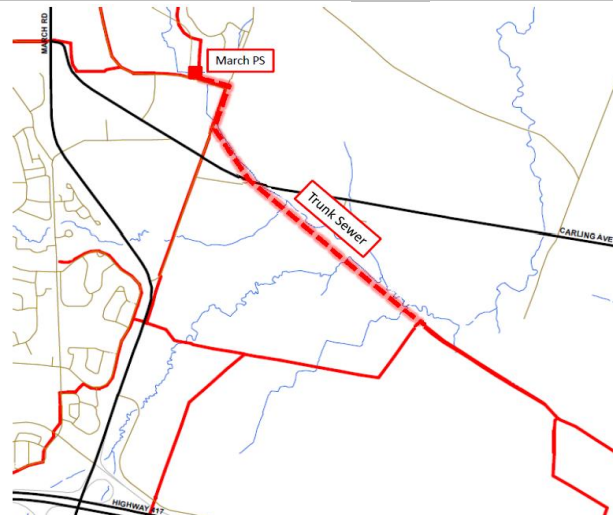
Project Information	Financial Details			
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904985 North Kanata Sewer Ph 2

Dept: Planning & Growth Management | Category: Growth | Ward: 13 | Year of Completion: 2015

The North Kanata Sewer is required to provide capacity for the North Kanata growth area. It was identified in the 1997 Wastewater Master Plan to provide infrastructure to convey the projected flows for the planning period. Follow up studies such as the Environmental Assessment, Condition Assessment, Functional Design and Preliminary Design of sewers in the study area refined and confirmed the infrastructure, phasing, schedule and costing. This authority is for undertaking the design. Additional authority will be requested in 2013 for construction.

2012 Request	450	Unspent Previous Authority			600
Revenues	-	Rate Supported		45	
Tax Supported/ Dedicated	-	Development Charges		405	
Gas Tax	-	Debt		-	
Forecast	2012	2013	2014	2015	
Authority	450	8,600	-	-	
Spending Plan	940	6,560	2,150	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

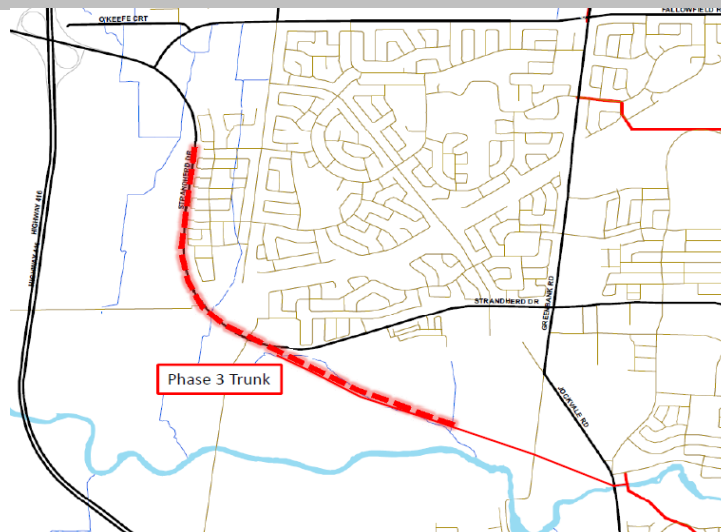
Project Information	Financial Details			
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905416 South Nepean Collector Ph 3

Dept: Planning & Growth Management | Category: Growth | Ward: 3 | Year of Completion: 2017

This extension of the South Nepean Collector is to provide an outlet for industrial, commercial and institutional lands in the Highway 416 - Strandherd development area. While this is a staged project to extend sewer service in the South Nepean Urban Area, it is anticipated that the Phase 3 works will proceed concurrent with the construction of the Phase 2 works (904984), advancing the originally planned timing of construction. This authority is for undertaking the design. Additional authority will be requested in 2013 for construction.

2012 Request	450	Unspent Previous Authority			-
Revenues	-	Rate Supported		44	
Tax Supported/ Dedicated	-	Development Charges		405	
Gas Tax	-	Debt		1	
Forecast	2012	2013	2014	2015	
Authority	450	4,350	-	-	
Spending Plan	450	3,260	1,090	-	
FTE's	-	-	-	-	
Operating Impact	-	-	-	-	



Project Information		Financial Details			
905424 Barrhaven S Oversizing North of Jock River					
Dept: Planning & Growth Management		Category: Renewal of City Assets		Ward: 3	
		Year of Completion: 2016			
<p>The City of Ottawa Infrastructure Master Plan has identified the need for the South Nepean Sanitary Collector Sewer to be extended north of the Jock River. The South Nepean Collector Wastewater Servicing Study and Functional Design identifies sub-trunk sewer alignments for this system. This account is required for reimbursing Developers for constructing oversized sanitary sewers within this system. The Development Charge By-Law requires the City to pay Developers for the oversizing of sanitary sewers which are constructed in a given year.</p>	2012 Request	100	Unspent Previous Authority		150
	Revenues	-	Rate Supported		-
	Tax Supported/ Dedicated	-	Development Charges		100
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	100	100	100	77
	Spending Plan	250	100	100	77
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-
	905653 ORAP - 2012 Stormwater Management Retrofit				
Dept: Planning & Growth Management		Category: Renewal of City Assets		Ward: CW	
		Year of Completion: 2016			
<p>These funds will be applied to implementing the Pinecrest Creek/Westboro Stormwater Management Retrofit Study. This study is a component of the Ottawa River Action Plan and was approved by City Council on October 26, 2011. 2012 funding will support initial implementation projects including: selected pilot retrofit projects on City properties; a neighbourhood scale lot level pilot project (to assess residents' willingness to implement retrofit measures on their own lots); a screening study to identify feasible locations for right-of-way retrofit measures (e.g., street narrowing, "green streets," etc.); and workshop/training related to improving local familiarity with retrofit measures.</p>	2012 Request	2,000	Unspent Previous Authority		-
	Revenues	2,000	Rate Supported		-
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	2,000	2,000	9,000	9,000
	Spending Plan	500	2,500	7,750	11,250
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa
Service Area: Wastewater Services
In Thousands (\$000)

2012 Budget

Project Information		Financial Details			
905423 Riverside S Community Sanitary					
Dept:	Planning & Growth Management	Category: Growth	Ward: 22	Year of Completion: 2017	
<p>This fund is for the repayment of sanitary sewer oversizing in the Riverside South Community in accordance with the DC By-law. Trunk sanitary sewers are being constructed by developers moving ahead with plans of subdivision in the Riverside South Community. These trunk sewers have been identified in the Riverside South Master Servicing Study.</p>	2012 Request	298	Unspent Previous Authority		898
	Revenues	-	Rate Supported		-
	Tax Supported/ Dedicated	-	Development Charges		298
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	298	298	298	298
	Spending Plan	1,196	298	298	298
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-
	905991 SUC Nepean S Oversizing South of Jock River				
Dept:	Planning & Growth Management	Category: Growth	Ward: 4	Year of Completion: 2016	
<p>The Barrhaven South Master Servicing Study identifies a system of trunk sanitary sewers that will service the South Urban Community (SUC) growth area south of the Jock River. The City's Development Charge Study identifies several sections of sanitary sewers in this area. This account is required for reimbursing Developers for constructing oversized sanitary sewers within this system. The Development Charge By-Law requires the City to pay Developers for the oversizing of sanitary sewers which are constructed in a given year.</p>	2012 Request	819	Unspent Previous Authority		-
	Revenues	-	Rate Supported		-
	Tax Supported/ Dedicated	-	Development Charges		800
	Gas Tax	-	Debt		19
	Forecast	2012	2013	2014	2015
	Authority	819	-	-	-
	Spending Plan	614	205	-	-
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

Project Information		Financial Details				
906626 2012 Servicing Studies Development						
Dept:	Planning & Growth Management	Category:	Growth	Ward:	CW	
				Year of Completion:	2016	
<p>As a result of continued growth and shifting market demands, there is a need to review and update existing infrastructure reports, studies, and plans pertaining to servicing infrastructure needs to ensure anticipated growth and proposed developer changes can be accommodated by existing and planned service infrastructure. The program will fund the necessary reviews as they arise in the developing communities.</p>		2012 Request	200	Unspent Previous Authority		1,019
		Revenues	-	Rate Supported		20
		Tax Supported/ Dedicated	-	Development Charges		180
		Gas Tax	-	Debt		-
		Forecast	2012	2013	2014	2015
		Authority	200	-	200	-
		Spending Plan	1,169	50	150	50
		FTE's	-	-	-	-
		Operating Impact	-	-	-	-
		906624 2012 Infrastructure Master Plan (Sewer)				
Dept:	Planning & Growth Management	Category:	Strategic Initiatives	Ward:	CW	
				Year of Completion:	2016	
<p>This request is to fund master planning of the wastewater system. Requirements for 2012 are for continued sanitary sewer hydraulic model development and to undertake wastewater master planning for the east. Funds may also be used to augment sewer flow monitoring.</p>		2012 Request	300	Unspent Previous Authority		632
		Revenues	-	Rate Supported		268
		Tax Supported/ Dedicated	-	Development Charges		32
		Gas Tax	-	Debt		-
		Forecast	2012	2013	2014	2015
		Authority	300	-	-	-
		Spending Plan	857	75	-	-
		FTE's	-	-	-	-
		Operating Impact	-	-	-	-

Project Information		Financial Details			
906625 2012 Infrastructure Master Plan (Stormwater)					
Dept: Planning & Growth Management	Category: Strategic Initiatives	Ward: CW	Year of Completion: 2016		
This request is to fund updating the stormwater management component of the Infrastructure Master Plan.	2012 Request	200	Unspent Previous Authority		298
	Revenues	-	Rate Supported		159
	Tax Supported/ Dedicated	-	Development Charges		41
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	200	-	-	-
	Spending Plan	448	50	-	-
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-
	906627 2012 Watershed/Subwatershed Planning				
Dept: Planning & Growth Management	Category: Strategic Initiatives	Ward: CW	Year of Completion: 2016		
Watershed and sub watershed studies are the highest level of environmental planning in the City of Ottawa after the Official Plan. They have four purposes: (a) to document the natural heritage system within a watershed / sub-watershed; (b) to identify the significant natural features and linkages that need to be protected, along with surface water and groundwater features; (c) to assess the potential impacts of existing and future land use activities and to recommend measures to avoid or mitigation them; (d) to identify opportunities to restore and enhance the natural system and to promote compatible uses. This budget item also covers the preparation of Environmental Management Plans, which accompany the preparation of Community Design Plans and specialized studies to address ancillary issues associated with sub-watershed planning, e.g.. Flewellyn Cumulative Effects Study as part of the Mud Creek / Jock River Reach II SWS. The budget line includes the hiring of specialized technical experts where the City does not have them.	2012 Request	250	Unspent Previous Authority		549
	Revenues	-	Rate Supported		250
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	250	250	250	-
	Spending Plan	799	250	250	-
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

Project Information		Financial Details			
906631 2012 Stream Restoration Projects					
Dept: Community Sustainability Servi	Category: Strategic Initiatives	Ward: CW	Year of Completion: 2015		
<p>Areas in the City requiring stream restoration are experiencing excessive erosion, which poses a risk to public safety, private property, roads and municipal facilities. As such, stream restoration projects that are identified through the City operations, subwatershed studies and environmental management plans, including joint projects with other agencies like Conservation Authorities, are being implemented.</p> <p>Funding in 2012 will be used for projects on Carp River and Mud Creek (tributary to Greens Creek). The Carp River project addresses public safety risks and loss of land adjacent to the Fitzroy Harbour Community Centre. The Mud Creek Project entails assessing the risk to infrastructure and property due to increased flows from upstream development in a constrained steep valley with areas of leda clay. The change in flows may lead to increased risk of slope failure or landslides.</p>	2012 Request	560	Unspent Previous Authority		24
	Revenues	-	Rate Supported		560
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	560	200	200	200
	Spending Plan	524	260	200	200
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-
	906632 Flood Plain Mapping				
Dept: Community Sustainability Servi	Category: Strategic Initiatives	Ward: CW	Year of Completion: 2015		
<p>This project will update citywide flood plain maps that are currently 20 to 30 years old. Inconsistencies with existing flood plain mapping are readily apparent when overlaid on aerial photography, which can pose risks for areas undergoing development and redevelopment in the City. Improved digital surface mapping will be implemented.</p>	2012 Request	225	Unspent Previous Authority		-
	Revenues	-	Rate Supported		225
	Tax Supported/ Dedicated	-	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	225	225	225	225
	Spending Plan	225	225	225	225
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

**City of Ottawa
Environment Committee
Capital Program
In Thousands (\$000)**

2012 Budget

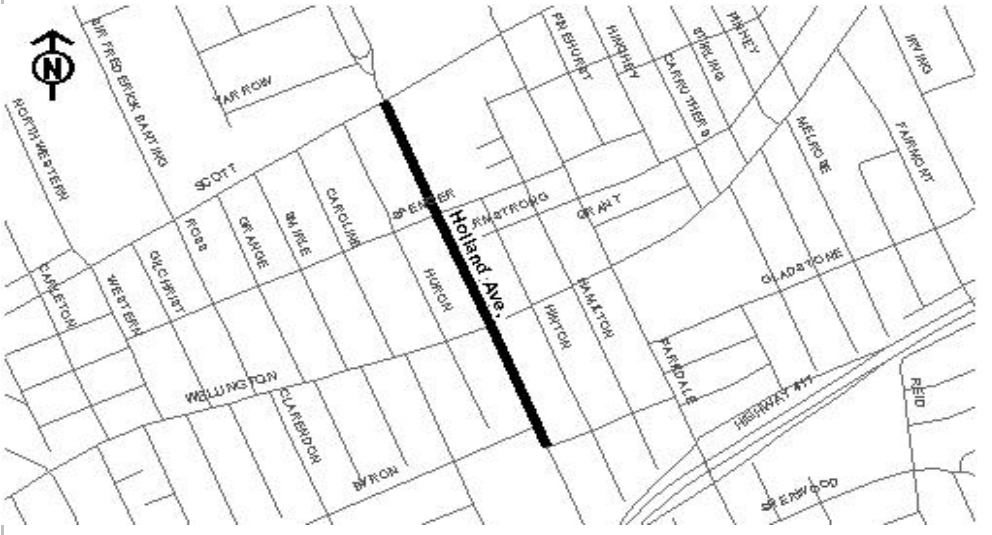

Service Area: Integrated Water & Wastewater							
Category	2012 Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Gas Tax	Rate Supported Reserves	Development Charges	Debt
Renewal of City Assets	21,900	-	-	-	21,893	-	7
Growth	-	-	-	-	-	-	-
Regulatory	-	-	-	-	-	-	-
Strategic Initiatives	-	-	-	-	-	-	-
Total	21,900	-	-	-	21,893	-	7

City of Ottawa
Service Area: Integrated Water & Wastewater
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Integrated Water & Wastewater					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Integrated Program includes rehabilitation of more than one asset class (sanitary sewers, storm drainage and water mains) that are coordinated within a single project. The program is aimed at renewing and replacing the infrastructure assets in order to provide continued service and prevent failures. The program is comprised of:</p> <ul style="list-style-type: none"> • Infrastructure assessment and data collection Initiatives (flow monitoring, condition assessments, etc.); • Project scoping and engineering; • Functional and preliminary designs; • Lifecycle renewal (renewal, rehabilitation and replacements for deterioration); • Coordinated renewal (schedule coordination (escalation or deferral) between asset classes and with others); • Level of service enhancements (flooding improvements and system optimization); • Enhancements (new cycling/sidewalks/streetscaping) coordinated with renewal; • Upgrades and rehabilitation to support growth and miscellaneous localized repairs. <p>Program funding requirements to support needs are defined in the Long Range Financial Plan. Actual budget allocations for these programs are adjusted to reflect change in need and affordability.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p>	2012 Request	21,900	Unspent Previous Authority		21,419
	Revenues	-	Rate Supported	21,893	
	Tax Supported/ Dedicated	-	Development Charges	-	
	Gas Tax	-	Debt	7	
	Forecast	2012	2013	2014	2015
	Authority	21,900	41,350	10,350	13,400
	Spending Plan	43,319	29,350	22,350	13,400
	FTE's Operating Impact	-	-	-	-
		-	-	-	-

Project	Ward	Location/Description	\$000's
<p>906086 Lady Ellen/Laperriere/McBride</p> <p>The existing watermain adjacent to Highway 417 must be relocated to accommodate the MTO's future lane widening of Highway 417. This project involves the construction of a new watermain and water services to the property line on Lady Ellen Pl (Laperriere Ave – dead end), Laperriere Ave (Lady Ellen Pl – McBride St) and McBride St (Laperriere Ave – Carlington Pumping Station). Some sewer renewal on Lady Ellen Pl and Laperriere Ave will be required. The project scope does not extend to the full right-of-way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by the trench works will be reinstated as part of the scope of the project. The reinstated conditions will be monitored and considered for future renewal programming as required. Total Project Estimate is comprised of: Sanitary Sewers - \$500K, Storm Sewer - \$500K, Watermain - \$4.5M.</p>	<p>8</p>		<p>5,500</p>
<p>906098 Norice / Woodroffe</p> <p>This project involves the renewal of the sanitary sewer on Norice St (Woodroffe Ave – Brook Ln) and Woodroffe Ave (Norice St - the railway tracks 230 metres south). The project includes the reconstruction of the local sanitary sewer and the sewer services to the property line. Project scope does not extend to full right of way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by trench works will be reinstated as part of the scope of the project. Monitoring of the reinstated conditions will be undertaken and considered as part of annual roadway needs assessments and renewal programming. Total Project Estimate is comprised of: Sanitary Sewers - \$3.5M , Watermain - \$1.0M.</p>	<p>8</p>		<p>4,500</p>

Project	Ward	Location/Description	\$000's
<p>906488 Holland Ave (Scott-Tyndall)</p> <p>The existing watermain in Holland Ave between Scott St and Tyndall St requires replacement due to its age and size. The scope of work includes the watermain replacement, minor sewer work and trench reinstatement. Project scope does not extend to full right of way reconstruction, streetscaping or addition of pedestrian/cycling links. Existing boulevard and roadway areas impacted by trench works will be reinstated as part of the scope of the project. Monitoring of the reinstated conditions will be undertaken and considered as part of annual roadway needs assessments and renewal programming.</p> <p>Total Project Estimate is comprised of: Sanitary Sewers - \$210K, Watermain - \$3.19M.</p>	<p>15</p>	 <p>A street map showing the project location in Ward 15. A thick black line highlights Holland Ave, running north-south between Scott St and Tyndall St. Surrounding streets include Carleton Place, Huron, and various residential streets like York Row, Scott, and Tyndall.</p>	<p>3,400</p>
<p>906635 Hurdman – St-Laurent Watermain Relocati</p> <p>The Hurdman-St Laurent Watermain Relocation was originally identified in the 1997 Water Master Plan. The need and sizing was confirmed in the City of Ottawa Water Supply System Optimization Study (2007). This project will improve the reliability of the water supply to the Orleans area as well as reduce the pumping power requirements at the Hurdman Pump Station. The added flexibility of a second transmission main to the Orleans area will also facilitate maintenance operations. The current funding allocation will allow for the construction to start in 2012.</p> <p>Total Project Estimate is comprised of: Sanitary Sewers - \$420K, Storm Sewer - \$420K, Watermain - \$2.16M.</p>	<p>11,13</p>	 <p>A map showing the Hurdman-St-Laurent Watermain Relocation project. A thick black line, labeled 'Watermain Link', runs from the Hurdman area near Highway 417 and the Hurdman Pump Station, through the Orleans area, and towards St-Laurent. Key streets shown include Wright, Presland, Arcola, Coventry, and St-Laurent.</p>	<p>3,000</p>

City of Ottawa
Service Area: Integrated Water & Wastewater
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906459 Sewer Access & Outfalls 2012	CW		1,500
<p>Through scheduled maintenance and inspections a number of sewer outfalls along the Ottawa River have been identified as being in poor condition. This project provides for the renewal of sewer outfall structures. An Environmental Assessment is currently underway with construction anticipated in 2012 and 2013.</p> <p>Total Project Estimate is comprised of: Sanitary Sewers - \$750K and Storm Sewers - \$750K.</p>			
906463 LRT/ISD Coordinated Works	CW		2,000
<p>This project will provide funding for design and construction of sanitary sewers, storm sewers and watermain relocations and adjustments in advance of the LRT construction.</p> <p>Total Project Estimate is comprised of: Sanitary Sewers - \$500K, Storm Sewers - \$500K, Watermain - \$1.0M.</p>			
906458 Sewer & Water Repairs/Improvements 2012	CW		2,000
<p>A number of locations have been identified to resolve surface flooding problems on private properties. Work could entail both trenchless and conventional spot repairs as well as various hydraulic improvements such as installing catch basins, re-profiling driveways or road grading. Total Project Estimate is comprised of: Sanitary - \$750K, Storm - \$750K and Watermain - \$500K.</p>			
Richmond Rd	15	Wavell Ave to Gainsborough Ave	
Chesterton Dr	9	Woodmount Cres to Woodmount Cres	
Coldrey Ave	16	Kirkwood Ave to Merviale Rd	
Donald B. Munroe Dr	5	Robertlee Dr to March Rd	
Enfield Ave	12	McArthur Ave to Stevens Ave	
Huntsman Cres	23	Riding Way to Blacksmith Pl	
Riverwood Dr	5	Woodkilton Rd to Willowbank Pl	
Remic Ave	15	Clearview Ave to Premier Ave	
Rothbourne Rd	21	Moonstone Rd to Carp Rd	
Sidney Cook Ln	17	Finlay Ave to Torrington Pl	
Golflinks Dr	22	Pondhollow Way	
Friendly Cr	20	Hartsmere Dr	

**City of Ottawa
Environment Committee
Capital Program
In Thousands (\$000)**

2012 Budget

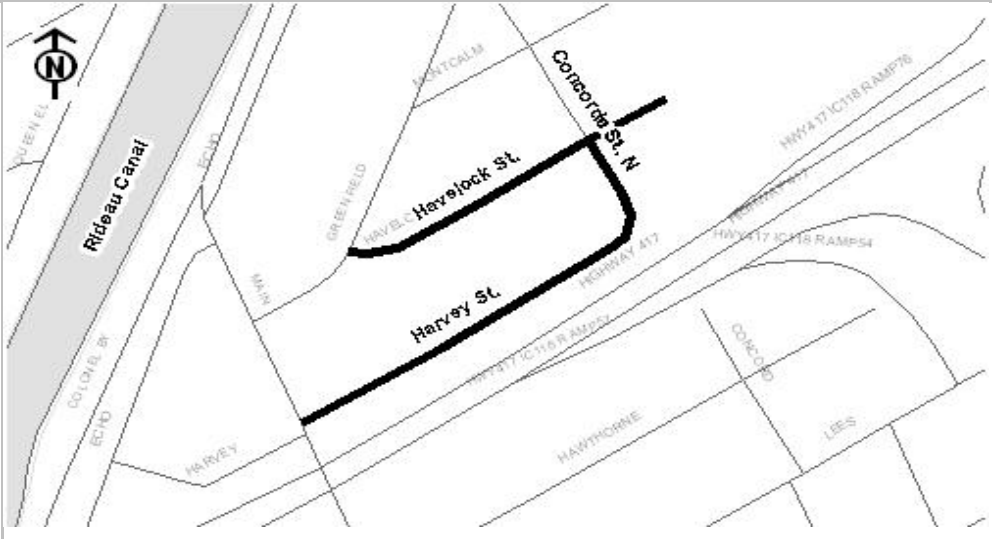

Service Area: Integrated Roads, Water & Wastewater							
Category	2012 Capital Budget *	Revenues	Tax Supported/ Dedicated Reserves	Gas Tax	Rate Supported Sources	Development Charges	Debt
Renewal of City Assets	76,994	6,792	4,530	-	60,184	759	4,729
Growth	-	-	-	-	-	-	-
Regulatory	-	-	-	-	-	-	-
Strategic Initiatives	-	-	-	-	-	-	-
Total	76,994	6,792	4,530	-	60,184	759	4,729

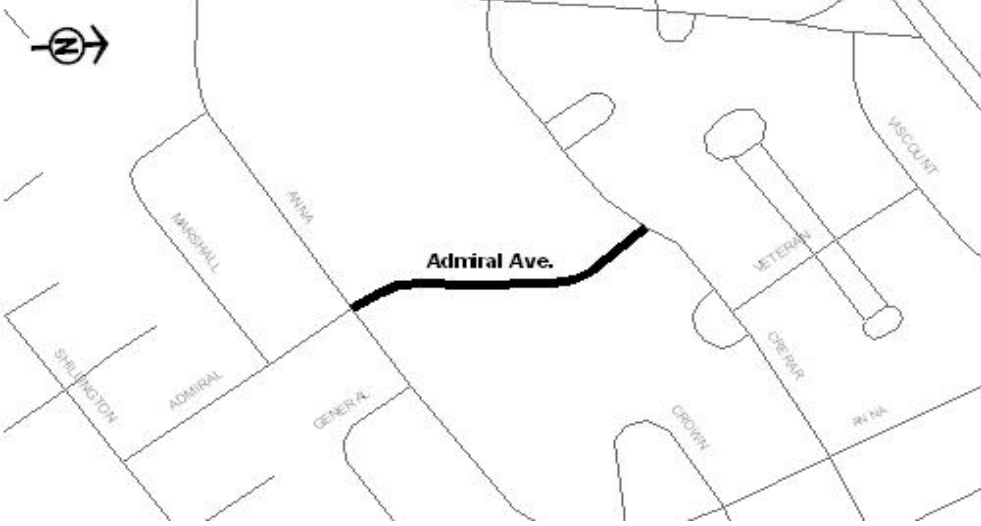
*Includes the Tax Supported portion of the program in the amount of \$10.186M.

City of Ottawa
Service Area: Integrated Roads, Water & Wastewater
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Integrated Rehab-Intensification Areas					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>Integrated rehabilitation projects include rehabilitation of more than one asset class (roads, sanitary sewers, storm drainage and water mains) coordinated within a single project. The projects renew and replace existing infrastructure assets in need. The Official Plan (OP) states the City’s overall goal to expand through intensification in the urban area and the Infrastructure Master Plan (IMP) supports the OP’s goals by providing guiding principles that identify the need to provide growth funding through the Development Charges (DC) By-law to those components of infrastructure rehabilitation programs supporting growth objectives.</p> <p>Existing City infrastructure was constructed for existing development and planned growth in place at the time. Rehabilitation strategies for existing infrastructure that address level of service, environmental and public health issues, provide the opportunity to generate additional capacity for growth by providing a global system benefit with the replacement or upsizing of existing infrastructure or by removing extraneous flows, reducing infiltration or improving system hydraulics.</p> <p>The Integrated Rehabilitation - Intensification Areas program provides for grouping of those proposed rehabilitation projects that are within sewer catchment areas that have identified intensification potential. The purpose of the grouping is to distinguish the rehabilitation projects for consideration of DC funding from those that are not within the intent of provisions of the 2009 Development Charge Bylaw 2009- 16 (schedule B-17 items 10.074/10.179). For the term of bylaw 2009-16, DC contributions for this program are being targeted against the sanitary/combined sewer component of these projects.</p>	2012 Request	21,590	Unspent Previous Authority		26,053
	Revenues	6,792	Rate Supported		12,209
	Tax Supported/ Dedicated	1,086	Development Charges		401
	Gas Tax	-	Debt		1,102
	Forecast	2012	2013	2014	2015
	Authority	21,590	250	250	250
	Spending Plan	47,643	250	250	250
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

Project	Ward	Location/Description	\$000's
<p>905594 ORAP-Harvey St /Concord St N / Havelock</p>	<p>17</p>	<p>Location/Description</p>	<p>5,380</p>
<p>The project is considered a priority to separate sewers as part of the ongoing Ottawa River Action Plan and to reduce the risk of basement flooding in the area. The work involves the renewal of roads, sewers, watermains and sidewalks in portions of Harvey St., Havelock St. and Concord St. The existing combined sewer will be replaced with new separate sanitary and storm sewers. The house service connections will be replaced to the property line.</p>			
<p>905595 ORAP-Rideau (Dalhousie-Chapel)</p>	<p>12</p>	<p>Location/Description</p>	<p>14,510</p>
<p>Renewal of Rideau Street is considered a priority to separate sewers as part of the ongoing Ottawa River Action Plan. The scope of work includes full roadway, curb and sidewalk reconstruction. The existing watermains, valves, hydrants, and services (including lead) to the property line will be replaced. The existing combined sewers will be replaced with separate sanitary and storm sewers and various surface drainage improvements will be made. The sewer services will be replaced to the property line.</p>			

Project	Ward	Location/Description	\$000's
906456 Admiral Ave. (Crerar Ave - Anna Ave)	16		1,700
<p>Admiral Avenue is an integrated road, sewer and water project. The road needs to be fully reconstructed to address poor pavement performance. The sanitary sewer and laterals are structurally deficient and require replacement. The watermain is of sufficient age to require replacement. The house service connections will be replaced to the property line.</p>	 <p>The map shows a street grid in a residential area. Admiral Ave. is highlighted in a thick black line, running east-west between Crerar Ave. to the north and Anna Ave. to the south. Other streets shown include Marshall Ave. to the west, General Ave. to the east, and Viscount Ave. to the south. A north arrow is located in the top left corner of the map area.</p>		

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater

2012 Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>"Ottawa on the Move" is a strategic funding initiative aimed at providing additional budget authority in 2012 to advance planned infrastructure renewal that would have otherwise extended beyond the term of Council. In some case programming and implementation of projects facilitated by the additional funding will span the term of Council.</p>			
<p>Funded By - Ottawa on the Move</p>			
Bank St (Riverside - Ledbury)	16,17,18	904085 - Design	
Empress/Perkins/Lorne ORAP	14	905597 - Full roadway, watermain, sewer separation	
Rockliffe West II – ORAP:			
Buena Vista (Manor -Lisgar)	13	Full roadway, watermain, sewer separation	
Minto (Buena Vista – Coltrin Rd)	13	Full roadway, watermain, sewer separation	
Elmwood (Buena Vista – Park)	13	Full roadway, watermain, sewer separation	
Kinzua (Elmwood – Manor)	13	Full roadway, watermain, sewer separation	
Minto (Park – Buena Vista)	13	Full roadway, watermain, sewer separation	
Coltrin Rd (Minto – Coltrin Pl)	13	Full roadway, watermain, sewer separation	
Coltrin Pl (Coltrin Rd – Dead End)	13	Full roadway, watermain, sewer separation	
Sussex (St. Patrick - Bolton) ORAP	12	906003 - Full roadway, watermain, sewer separation	
Bayswater Pl / Irving Pl ORAP	15	906004 - Full roadway, watermain, sewer separation	
Rideau (Chapel - Rideau River) ORAP	12	906050 - Full roadway, watermain, sewer separation	
Sussex (Bolton - King Edward) ORAP	12	906051 - Full roadway, watermain, sewer separation	
Booth (Primrose - Albert) ORAP	14	906052 - Full roadway, watermain, sewer separation	
Willingdon/Park Rd/Minto Pl ORAP	13	906053 - Full roadway, watermain, sewer separation	
Clarendon / Harmer ORAP	15	906054 - Full roadway, watermain, sewer separation	
Albert St / Scott St	14,15	906056 - Full roadway, watermain, sewer separation	
Ruskin / Inglewood ORAP	15	906170 - Full roadway, watermain, sewer separation	
Justin/Dunvegan/Lonsdale ORAP	13	906171 - Full roadway, watermain, sewer separation	
Bronson (Laurier - Arlington)	14	906457 - Full roadway, watermain, sewer renewal	
Main St (Echo - Springhurst)	17	906579 - Full roadway, watermain, sewer separation	
Main Street (Springhurst - Riverside)	17	906585 - Full roadway, watermain, sewer separation	
Bronson (Canal - Carling)	17	906586 - Full roadway, watermain, sewer renewal	
Gladstone (Bank - Cartier)	14	906587 - Full roadway, watermain, sewer renewal	

City of Ottawa
Service Area: Integrated Roads, Water & Wastewater
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Wet Weather Program					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Infrastructure Services Department is preparing a detailed and comprehensive Wet Weather Infrastructure Management Plan (WWIMP) to address development of an overall approach to wet weather flow management within the urban area. The WWIMP will investigate identified problem areas and implement high impact programs in those areas. The WWIMP will also provide recommendations on general concerns, such as design standards for components of the system and climate change adaptation. This project supports the overall implementation objectives of the Ottawa River Action Plan.</p> <p>The current funding request of \$24,245K is comprised of: Roads - \$560K, Sanitary Sewers - \$4,000K, Storm Drainage - \$18,095K and Water Mains - \$1,590K.</p>	2012 Request	24,245	Unspent Previous Authority		3,626
	Revenues	-	Rate Supported		23,685
	Tax Supported/ Dedicated	560	Development Charges		-
	Gas Tax	-	Debt		-
	Forecast	2012	2013	2014	2015
	Authority	24,245	-	-	-
	Spending Plan	27,871	-	-	-
	FTE's Operating	-	-	-	-
	Impact	-	-	-	-

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
90553 West-end Flood Mitigation		6,23	24,245
<p>On 24 July 2009, portions of the City experienced a significant rain storm resulting in over 1,500 occurrences of basement flooding, road flooding and washout of drainage culverts, the majority of which were located in the west end of the City. An investigation by Infrastructure Services Department in 2009 to identify potential solutions has led to the following projects.</p>			
Glen Cairn Storm Pumping Station	23	Construction 2012	
Glen Cairn Storm drainage system improvements	23	Design 2012, Construction 2012-13	
Hazedean Pumping Station Improvements	23	Construction 2012	
Vanstone Area Drainage Improvements	23	Construction 2012	
Stittsville overland flow improvements	6	Design 2012, Construction 2012-13	

City of Ottawa
Service Area: Integrated Roads, Water & Wastewater
In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Road Resurfacing/Rehabilitation					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>Resurfacing projects restore and extend the life of the City's existing roadway infrastructure.</p> <p>Candidates are based on condition, usage and coordination with other infrastructure requirements.</p> <p>Funding provides for actual pavement resurfacing costs as well as ancillary costs associated with ironwork adjustments, roadway culvert repairs/replacement, curb repairs, and base repairs where necessary.</p> <p>A portion of the annual funding provides for enhancements (paved shoulders, cycling etc.) coordinated with renewal and rehabilitation work.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions following completion of a review.</p>	2012 Request	2,815	Unspent Previous Authority		1,586
	Revenues	-	Rate Supported		538
	Tax Supported/ Dedicated	1,150	Development Charges		-
	Gas Tax	-	Debt		1,127
	Forecast	2012	2013	2014	2015
	Authority	2,815	-	49,280	13,370
	Spending Plan	4,401	-	49,280	13,370
	FTE's	-	-	-	-
	Operating	-	-	-	-
	Impact	-	-	-	-

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

2012 Budget

Program Information		Financial Details			
Integrated Road, Sewer & Water Program					
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various		
<p>The Integrated Program includes rehabilitation of more than one asset class (roads, sanitary sewers, storm drainage and water mains) that are coordinated within a single project. The program is aimed at renewing and replacing the infrastructure assets in order to provide continued service and prevent failures. The program is comprised of:</p> <ul style="list-style-type: none"> • Infrastructure Assessment and Data Collection Initiatives (flow monitoring, condition assessments, etc.); • Project Scoping and Engineering; Functional and Preliminary Designs; • Lifecycle Renewal (renewal, rehabilitation and replacements for deterioration); • Coordinated Renewal (schedule coordination (escalation or deferral) between asset classes and with other asset classes); • Level of Service Enhancements (flooding improvements and system optimization); • Enhancements (new cycling/sidewalks/streetscaping) coordinated with renewal; • Upgrades and rehabilitation to support growth and miscellaneous localized repairs. <p>Program funding requirements to support project needs are defined in the Long Range Financial Plan. Actual budget allocations for these programs are adjusted to reflect change in need and affordability. Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p>	2012 Request	28,344	Unspent Previous Authority		33,856
	Revenues	-	Rate Supported		23,752
	Tax Supported/ Dedicated	1,734	Development Charges		358
	Gas Tax	-	Debt		2,500
	Forecast	2012	2013	2014	2015
	Authority	28,344	-	48,708	42,590
	Spending Plan	38,511	17,559	54,838	42,590
	FTE's	-	-	-	-
	Operating Impact	-	-	-	-

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906464 Road Resurfacing - CW	CW		2,815
The Road Resurfacing program provides for annual resurfacing and rehabilitation of the City's roadway network. It is required to extend the life of the infrastructure and prevent roadway failures requiring more extensive reconstruction. Funding is also provided for ancillary costs associated with ironwork/culvert adjustments.			
Parkway Rd	20	Bank St (OR 31) To 8th Line Rd Rd	
Marshwood Rd	5	Panmure Rd To 180m South Of Deertail Lane North	
River Rd (OR 19)	10,22	Leitrim Rd (OR 14) To Lowen Dr	
River Rd (OR 19)	20	Doyle Rd To Flag Station Rd	
Tenth Line Rd (OR 47)	19	Navan Rd (OR 28) To 1.17 Km North Of Wall Rd	
McKenna Casey Dr	3	Moodie Dr (OR 11) To Strandherd Dr	
Funded by - Ottawa on the Move			
Jeanne D'Arc Blvd	1	Decarie Dr To Lawnsberry Dr	
Thomas A Dolan Pkwy	5	Donald B. Munro Dr To Diamondview Rd	
Fourth Line Rd (OR 5)	21	Reevecraig Dr South To Dilworth Rd (OR 13)	
Donnelly Dr (OR 5)	21	Merlyn Wilson (RR 5) To Reevecraig Dr South	
Merlyn Wilson (OR 5)	21	RMOC South Limit (353m South Of Bart"S Lane) To Donnelly Rd (OR 2)	
Dwyer Hill Rd (OR 3)	21	Franktown Rd (OR 10) To Bleeks Rd	
Herzberg Rd	4,7	March Rd (OR 49) To 50m South Of Carling Av (OR 38)	
Huntmar Dr	6	Maple Grove Rd To Palladium Dr South	
Jockvale Rd	3	Strandherd Dr To Cedarview Rd	
Kennevale Dr	3	Weybridge Dr To Cedarview Rd	
Sherway Dr	3	Fable St To Malvern Dr	
Weybridge Dr	3	Jockvale Rd (S) To Jockvale Rd (N)	
Flanders St	3	Maravista Dr To Kennevale Dr	
Lacolle Way	1	Taylor Creek Dr (W) To Taylor Creek Dr (E)	
Viseneau Dr	2	Boyer Rd To Innes Rd (OR 30)	
Lola St	13	Coventry Rd (OR 50) To King George St	
Davidson Rd	10	Bank St (OR 31, Hwy 31) To Hawthorne Rd	

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906464 Road Resurfacing - CW	CW		2,815
The Road Resurfacing program provides for annual resurfacing and rehabilitation of the City's roadway network. It is required to extend the life of the infrastructure and prevent roadway failures requiring more extensive reconstruction. Funding is also provided for ancillary costs associated with ironwork/culvert adjustments.			
Funded by - Ottawa on the Move			
OR 174	02,11	Montreal Rd (OR 34) To 1 km West of Blair (OR 27)	
Selective Resurfacing	CW	Various Locations	
Crack Sealing	CW	Various Locations	
Preservation Treatments	CW	Various Locations	
Galetta Side Rd (OR 22)	5	Highway 17 To Ferry Rd (OR 7)	
Anderson Rd (OR 27)	2	Innes Rd (OR 30) To Renaud Rd	
Albert St (OR 42)	14	Bay St To Bronson Av (OR 79)	
Des Epinettes Av	1,2,19	Jeanne D'arc Blvd (OR 55) To Tenth Line Rd (OR 47)	
Sixth Line (OR 21)	5	Riddell Rd (OR 109) To Thomas A. Dolan Pkwy	
Rothbourne Rd	6,21	Highway 7 (Dead End) To Lloydalex Cr	
Flewellyn Rd	21	Ashton Station Rd To Dwyer Hill Rd (OR 3)	
Flewellyn Rd	21	Dwyer Hill Rd (OR 3) To Munster Rd	
Ashton Station Rd	21	Ormrod Rd To Flewellyn Rd	
Ormrod Rd	21	Ashton Station Rd To Flewellyn Rd	
Crerar Av	16	Merivale Rd (OR 63) To Fisher Av (OR 69)	
Bayshore Dr	7	Richmond Rd (OR 36) To Woodridge Cr (South Leg)	
O'Connor St (OR 87)	14	Isabella St (OR 62) To Somerset St	
Fallowfield Rd (OR 12)	3,9	Cedarview Rd To Greenbank Rd (OR 13)	
Russell Rd (OR 26)	18	St Laurent Blvd (OR 26) To Walkley Rd (OR 74)	
St. Laurent Blvd \ Russell Rd(OR 26)	18	St Laurent Blvd (95m South Of Smyth Rd) To Rail Way Overpass North Limit (315m North Of Shore St)	
Walkley Rd (RR 74)	10,18	Banton Rd To east Joint Cnr Overpass (210m) East of Lancaster Rd	
Watters Rd	1	Charlemagne Blvd To Montcrest Dr	
Montcrest Dr	1	Princess Louise Dr To Watters Rd	

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906464 Road Resurfacing - CW	CW		2,815
The Road Resurfacing program provides for annual resurfacing and rehabilitation of the City's roadway network. It is required to extend the life of the infrastructure and prevent roadway failures requiring more extensive reconstruction. Funding is also provided for ancillary costs associated with ironwork/culvert adjustments.			
Funded by - Ottawa on the Move			
Princess Louise Dr	1	Charlemagne Blvd (W) To Charlemagne Blvd (E)	
Dairy Dr	1	Trim Rd (OR 57) To Dead End	
Woodroffe Av (OR 15)	7	Richmond Rd (OR 59) To NCC Parkway	
La Verendrye Dr	11	Ogilvie Rd to Quincy Av	
Tapiola Cr	10	Johnston Rd West to Johnston Rd East	
Ottawa St	21	Eagleson Rd (OR 49) to Mcbean St (OR 5)	
King St	21	Ottawa St to Dead End	
Below the Line			
Delson Dr	19	Trim Rd (OR 57) To Colonial Rd (OR 28)	
Kilmaurs Side Rd	5	Woodkilton Rd To Dunrobin Rd (OR 9)	
Carling Av (OR 38)	7	Richmond Rd (OR 36) To Woodroffe Av S. (OR 15)	
Ogilvie Rd (OR 50)	11	St. Laurent Blvd (OR 26) To Aviation Parkway	
Ogilvie Rd (OR 50)	11	City Park Dr To Gregory Ct	
Meadowlands Dr (OR 51)	8	Woodroffe Av (OR 15) To Merivale Rd (OR 17)	
Withrow Av	8	Meadowlands Dr (OR 51) To Suffolk St	
Stagecoach Rd (OR 25)	20	50m South Of 1931 Stagecoach Rd To 50m North Of 1897	
Baseline Rd (OR 16)	8	Woodroffe Av (OR 15) To St Helens's Place	
Baseline Rd (OR 16)	8,9,16	St Helen's Place To Merivale Rd (OR 63)	
Baseline Rd (OR 16)	9,16	Merivale Rd (OR 63) To Prince Of Wales Dr (OR 73)	
St. Patrick St (OR 44) East Bound	12	Murray St (OR 82) To Crichton St	
St. Patrick St (OR 44) West Bound	12	Crichton St To 85m West Of Beausoleil Dr	
Mackenzie Av	12	Murray St (OR 82) To 230m North Of Rideau St	
West Hunt Club Rd (OR 32)	8	Moodie Dr (OR 11) To West Lim. Hwy 416 Bridge	
Eagleson Rd (OR 49)	8,23	Cope Dr To Hazeldean Rd (OR 36)	
Antares Dr	9	Hunt Club (OR 32) To Auriga Dr	
Long Island Rd	21	Lena Av To Bridge St (OR 8)	

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906464 Road Resurfacing - CW	CW		2,815
The Road Resurfacing program provides for annual resurfacing and rehabilitation of the City's roadway network. It is required to extend the life of the infrastructure and prevent roadway failures requiring more extensive reconstruction. Funding is also provided for ancillary costs associated with ironwork/culvert adjustments.			
Below the Line			
Slater St (OR 40)	14	Bronson Av (OR 79) To Elgin St (OR 91)	
Westcliffe Rd	8	Seyton Dr To Robertson Rd (OR 36)	
Diamondview Rd	5	Baird Side Rd To Kinburn Side Rd (OR 20)	
Carling Av (OR 38)	7	Corkstown Rd To Bayshore Dr	
Knoxdale Rd	9	Woodroffe Av (OR 15) To West Hunt Club Rd (OR 32)	
Dauphin Rd	18	Haig Dr To Smyth Rd (OR 72)	
Haig Dr	18	Dauphin Rd To Cork St	
Corkstown Rd (OR 18)	7	Moodie Dr (OR 11) To March Rd (OR 49)	
Baycrest Dr	18	Heron Rd (OR 16) To Sandalwood Dr	
Palomino Dr	23	Eagleson Rd (OR 49) To Eagleson Rd (OR 49)	
Maclarens Side Rd	5	Torbolton Ridge Rd To Woodkilton Rd	
Ridgetop Rd	5	Thomas A. Dolan Pkwy To Dunhaven Dr	
Mansfield Rd	21	Munster Rd To Conley Rd	
Beverly St	6	West Ridge Dr To Stittsville Main St (OR 5)	
Jonathan Pack St	6	Abbott St West To Beverly St	
Rideau Rd	20	Bowesville Rd To Albion Rd (OR 25)	
Dunhaven Dr	5	Ridgetop Rd To Stonecrest Rd	
Deschamps Av	12	Vanier Pkwy To Marier Av	
Marier Av	12	Montreal Rd (OR 34) To Shakespeare St	
Burnbank St	9	Grenfell Cr To Dead End	
Walgreen Rd	21	Walgreen Rd (E) To Moonstone Rd	
Westbrook Rd	21	Walgreen Rd To Carp Rd (OR 5)	
Willowlea Rd	21	Moonstone Rd To Westbrook Rd	
Dovercourt Av	15	Broadview Ave To Churchill Av North (OR 65)	

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906464 Road Resurfacing - CW	CW		2,815
The Road Resurfacing program provides for annual resurfacing and rehabilitation of the City's roadway network. It is required to extend the life of the infrastructure and prevent roadway failures requiring more extensive reconstruction. Funding is also provided for ancillary costs associated with ironwork/culvert adjustments.			
Below the Line			
Church St	21	Lenida St (N) To McCordick Rd	
Gregoire Rd (OR 41)	20	Marionville Rd To Carleton Corner Lane	
Marionville Rd	20	40m W Of Gregoire Rd (OR 41) To Gregoire Rd (OR 41)	
Apple Orchard Rd	20	Manotick Station Rd To Stagecoach Rd (OR 25)	
Parkway Rd	20	Stagecoach Rd (OR 25) To Old Prescott Rd	
First Line Rd	21	Bankfield Rd To Roger Stevens Dr (OR 6)	
Rideau Valley South (OR 13)	21	Roger Stevens (OR 6) To North Bridge (South Old Wellington St)	
Kinsella Dr	19	Old Montreal Rd (Queen St) To Dead End	
Royal Orchard Dr	19	Wilhaven Dr To Quillivan Lane	
Prestwick Dr	1,19	Amiens St To Innes Rd (OR 30)	
Yorks Corners Rd	20	Victoria St (OR 6) To Marvelville Rd (OR 4)	
Springhill Rd	20	Bank St (OR 31) To Yorks Corners Rd	
Old Prescott Rd	20	Mitch Owens Rd (OR 8) To Stagecoach Rd (OR 25)	
5th Line Rd	20	Snake Island Rd (OR 6) To Dalmeny Rd	
Kilborn Av	18	Bank St (OR 31) To Kilborn Pl	
Matheson Rd	11	Bathgate Dr To Charlton Dr	
Carson's Rd	13	Montreal Rd (OR 34) To Den Haag Dr	
Charlton Dr	11,13	Lotus St To Plumber Av	
Plumber Av	13	Charlton Dr To Bathgate Dr	
Albion Rd (OR 25)	10,20,22	Mitch Owens Rd (Or 8) To Lester Rd (OR 24)	
Iris St	8	Greenbank Rd (OR 13) To Woodroffe Av (OR 15)	
Industrial Rd (Or 30)	18	Riverside Dr (OR 19) To 60 M West Of Russell Rd	
Stonehenge Cr	11	Innes Rd (OR 30) To Innes Rd (OR 30)	
Colonial Rd (OR 28)	19	Trim Rd (OR 28) To Frank Kenny Rd	
Southpark Dr	2	Old Innes Rd to Tauvette St	

Service Area: Integrated Roads, Water & Wastewater

2012 Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
906451 Infrastructure Assessment & Data Collection	CW		6,450
<p>This is an ongoing project related to performance monitoring and condition assessment of the City's roads, water mains, sanitary sewers, storm drainage and combined sewer networks. Funding provides for testing, network level data collection, miscellaneous soil evaluations, and asset management implementation initiatives. The 2012 Budget Request of \$6,450K is comprised of: Roads - \$800K, Sanitary Sewers - \$2,050K, Storm Drainage - \$2,200K and Water Mains - \$1,400K.</p>			
906452 Scoping Pre/Post Engineering	CW		800
<p>Scoping and design briefs are necessary to adequately define boundary conditions, coordination requirements and project limits prior to initiating design stages. Funding also allows design assignments to be initiated for construction in the following year and to address adjustments required beyond the project's completion. The 2012 Budget Request of \$800K is comprised of: Roads - \$200K, Sanitary Sewers - \$200K, Storm Drainage - \$200K and Water Mains - \$200K.</p>			
906453 R-O-W/Easement Adjustments	CW		800
<p>This funding request is for the annual requirements associated with the negotiation, purchase and dedication of road rights-of-way, easements and encroachments of existing City infrastructure onto private properties. The 2012 Budget Request of \$800K is comprised of: Roads - \$200K, Sanitary Sewers - \$200K, Storm Drainage - \$200K and Water Mains - \$200K.</p>			
906454 Guidelines, Specs & Engineering	CW		410
<p>Funding provides for development and updates to approved products, design guidelines, construction standards, specifications, digital vault scanning, miscellaneous support studies and construction technical support initiatives. The 2012 Budget Request of \$410K is comprised of: Roads - \$200K, Sanitary Sewers - \$70K, Storm Drainage - \$70K and Water Mains - \$70K.</p>			
906455 Surveys & Mapping	CW		650
<p>This program funds the acquisition and processing of aerial photography and base topographic mapping. This information is a foundation and a prerequisite for engineering design and construction, utility inventory, and maintenance and land use planning. Mapping is a critical component of the corporate MAP/GIS system, and must be maintained on a continuing basis to ensure this enterprise database is kept current. This information is used extensively by the general public through the ottawa.ca website and should reflect existing conditions. The 2012 Budget Request of \$650K is comprised of: Roads - \$200K, Sanitary Sewers - \$150K, Storm Drainage - \$150K and Water Mains - \$150K.</p>			

Service Area: Integrated Roads, Water & Wastewater

2012 Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
901160 Integrated Program - Bulk Proj	CW		11,634
<p>This is an ongoing project which contains authority for fully integrated road, sanitary sewer, storm drainage and watermain projects. Once identified, specific capital projects are created to account for the related costs. The current Budget Request of \$11,634K is comprised of: Roads - \$1,364K, Sanitary Sewers - \$3,160K, Storm Drainage - \$3,160K and Water Mains - \$3,950K.</p>			
905865 Meadowlands Area Watermains	8		7,600
<p>This project is part of the Integrated Roads, Water & Wastewater Program. Meadowlands Drive rehabilitation was initiated with design in 2010 following several water main failures. The scope of work includes full roadway, curb and sidewalk reconstruction. The existing water mains, valves, hydrants, and services will be replaced to the property line. The existing sewers will be replaced and various surface drainage improvements are to be undertaken to direct flow overland. The sewer house service connections will also be replaced to the property line. This authority is for Phase 2 of the project. The current Budget Request of \$7,600M is comprised of: Roads - \$770K, Sanitary Sewers - \$1.53M, Storm Drainage - \$1.68M and Water Mains - \$3.62M.</p>			
<p>"Ottawa on the Move" is a strategic funding initiative aimed at providing additional budget authority in 2012 to advance planned infrastructure renewal that would have otherwise extended beyond the term of Council. In some case programming and implementation of projects facilitated by the additional funding will span the term of Council.</p>			
<p>Funded by - Ottawa on the Move</p>			
Churchill Ave (Carling - Duncairn)	15	904217 - Full roadway, water main, sewer renewal	
Merriman / Dunvegan / Arundel - ORAP	13	905518 - Full roadway, water main, sewer separation	
Carling Ave (Bronson - O'Train)	14,17	905581 - Full roadway, water main, sewer renewal	
King George / Glynn	13	905582 - Full roadway, water main, sewer renewal	
Woodroffe Ave (Baseline - 417)	8	906097 - Roadway, water main added to sewer renewal	
Additional - Scoping Pre/Post Engineering	CW	906452 - Additional Survey, Mapping, Geotechnical works	
Churchill Ave (Duncairn - Byron)	15	906578 - Full roadway, water main, sewer renewal	

City of Ottawa
Environment Committee
Capital Program
In Thousands (\$000)

2012 Budget

Service Area: Transportation Services-Int							
Category	2012 Capital Budget*	Revenues	Tax Supported/ Dedicated Reserves	Gas Tax	Rate Supported Sources	Development Charges	Debt
Renewal of City Assets	340,222	29,115	-	-	103,264	7,843	200,000
Growth	-	-	-	-	-	-	-
Regulatory	-	-	-	-	-	-	-
Strategic Initiatives	-	-	-	-	-	-	-
Total	340,222	29,115	-	-	103,264	7,843	200,000

*Includes the Tax supported portion of program in the amount of \$131.363M.

Program Information		Financial Details					
906566 Ottawa on the Move							
Dept:	Infrastructure Services/Planning & Growth Management	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various			
<p>Ottawa on the Move is a strategic funding initiative to renew infrastructure and secure good mobility throughout the City. The program accelerates improvements to roads, sidewalks and structures. The Ottawa on the Move program will complete integration of all transportation improvements from light rail to cycling and from traffic safety to improving overall road conditions.</p> <p>Through Ottawa on the Move investments will be made more quickly to ensure maximum mobility throughout the construction of the LRT and Lansdowne Park redevelopment. This city will capitalize on historically low borrowing rates available to save more than \$12.9 million by moving forward more quickly with needed work.</p> <p>Funding provided through Ottawa on the Move aligns with the Transportation and Mobility Strategic Objectives contained in the Term of Council Priorities.</p> <p>Funds will come from a combination of tax-supported and rate-supported sources:</p> <ul style="list-style-type: none"> • \$29.1 million in Provincial and Federal funding for the Ottawa River Action Plan, • \$7.8 million from development charges, • \$178.3 million of rate supported funding (including \$75M debt) for appropriate portions of Integrated Road, Water and Sewer projects, and • \$125 million will be financed through tax supported debt <p>The initiative provides the authority to transfer \$340.2 million funding to specific program areas to supplement their 2012 Citywide allocations.</p>		2012 Request	340,222	Unspent Previous Authority		-	
		Revenues	29,115	Rate Supported			103,264
		Tax Supported/Dedicated	-	Development Charges			7,843
		Gas Tax	-	Debt			200,000
		Forecast	2012	2013	2014	2015	
		Authority	340,222	-	-	-	-
		Spending Plan	102,516	161,146	76,560	-	-
		FTE's	-	-	-	-	-
		Operating Impact	-	-	-	-	-

City of Ottawa
Service Area: Transportation Services
In Thousands (\$000)

2012 Draft

2012 Budget

Ottawa on the Move

Program Area	Tax Supported	Revenues	Rate		DC		Total
			Sewer	Water	Roads	Waste Water	
Cycling Facilities	10,000				2,100		12,100
Integrated Road, Sewer Water	8,828	1,877	21,510	19,325			51,540
Integrated Rehabilitation Intensification Areas	22,517	27,238	64,777	69,592		5,743	189,867
Road Reconstruction / Upgrades	3,180						3,180
Road Resurfacing / Rehabilitation	47,720		2,295	765			50,780
Structures	28,750						28,750
Sidewalk and Curb Renewal	4,005						4,005
	125,000	29,115	88,582	89,682	2,100	5,743	340,222

Revisions to the rate supported funding assumptions since adoption of the 2012 tax supported budget on November 30, 2011, have resulted in a reduction and redistribution of revenues, decreased rate requirement, and application of additional development charges.

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move	CW		12,100
Cycling Facilities			
The focus of this program is on closing missing links and providing convenient and safe cycling facilities. The projects identified below will proceed over the next three years, using funds from Ottawa on the Move; projects are for cycling initiatives to help provide mobility options to residents during and after LRT construction.			
Stewart Bike Lane	12	Bike lane upgrade from Cumberland to Cobourg.	
Wilbrod Bike Lane	12	Bike lane upgrade from Cumberland to Cobourg.	
St. Patrick Bike Lanes	12	From Cobourg to St. Patrick Bridge.	
St. Patrick EB Bike Lanes	12	From St. Patrick Bridge to Vanier Parkway.	
Beechwood/Hemlock Bike Lanes	12 & 13	From Marier to Birch.	
Hemlock Bike Lane	13	From Birch to St. Laurent.	
Scott Street Pathway Upgrade	14 & 15	From Smirle to Bronson.	
Lyon Street improvement	14 & 15	From Sparks to Queen.	
Detailed Design Work - pedestrian and cycling bridge	12 & 13	Over the Rideau River and pathway connections between Donald Street and Somerset Street East.	
Integrated Design Work and Scoping	Multiple	To define projects scope and identify opportunities for integration with other renewal projects.	
Pedestrian connectivity and multi-use pathways	Multiple		
Champagne/O-Train Corridor Pathway Phase 2	14 & 15	From Somerset Street to Dow's Lake.	
Scott Street Pathway Upgrade	14 & 15	From Holland to Commissioner.	
Scott Street Pathway (New)	14 & 15	From Bayview to West of City Centre.	
Albert Street Pathway Upgrade	14	From Preston to Commissioner.	
Laurier Bike Lanes	12 & 14	From Elgin to Nicholas.	
Cobourg Buffered Bike Lanes	12	From Rideau Street to St. Patrick.	
Beechwood Intersections Improvements	12 & 13	From Vanier Parkway to Marier.	
NB Cycling Lane, west side of the Canal	14	Along National Art Centre property line.	
Laurier Segregated Bike lane to Albert Street Pathway	14	From Laurier at Bronson to Albert at Commissioner.	
Parkdale Link to Ottawa River Pathway	15	From Forward Avenue to Goldenroad Driveway.	
Churchill Bike Lane	15	From Carling to Byron.	
O'Connor Bike Lanes	14 & 17	From Wellington to Isabella.	

City of Ottawa
Service Area: Transportation Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move		CW	
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Integrated Road Sewer Water			51,540
Churchill Ave (Carling - Duncairn)	15	Full roadway, watermain, sewer renewal	
Merriman / Dunvegan / Arundel ORAP	13	Full roadway, watermain, sewer separation	
Carling Ave (Bronson - O'Train)	14,17	Full roadway, watermain, sewer renewal	
King George / Quill	13	Full roadway, watermain, sewer renewal	
Woodroffe Ave (Baseline - 417)	8	Roadway, watermain added to sewer renewal	
Additional - Scoping Pre/Post Engineering	CW	Additional Survey, Mapping, Geotechnical works	
Churchill Ave (Duncairn - Byron)	15	Full roadway, watermain, sewer renewal	
Integrated Rehabilitation - Intensification Areas			189,867
Bank St (Riverside - Ledbury)	16,17,18	Design	
Empress/Perkins/Lorne ORAP	14	Full roadway, watermain, sewer separation	
Rockliffe West II – ORAP:			
Buena Vista (Manor -Lisgar)	13	Full roadway, watermain, sewer separation	
Minto (Buena Vista – Coltrin Rd)	13	Full roadway, watermain, sewer separation	
Elmwood (Buena Vista – Park)	13	Full roadway, watermain, sewer separation	
Kinzua (Elmwood – Manor)	13	Full roadway, watermain, sewer separation	
Minto (Park – Buena Vista)	13	Full roadway, watermain, sewer separation	
Coltrin Rd (Minto – Coltrin PI)	13	Full roadway, watermain, sewer separation	
Coltrin PI (Coltrin Rd – Dead End)	13	Full roadway, watermain, sewer separation	
Sussex (St. Patrick - Bolton) ORAP	12	Full roadway, watermain, sewer separation	
Bayswater PI / Irving PI ORAP	15	Full roadway, watermain, sewer separation	
Rideau (Chapel - Rideau River) ORAP	12	Full roadway, watermain, sewer separation	

City of Ottawa
Service Area: Transportation Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move		CW	
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Integrated Rehabilitation - Intensification Areas cont'd			
Sussex (Bolton - King Edward) ORAP	12	Full roadway, watermain, sewer separation	
Booth (Primrose - Albert) ORAP	14	Full roadway, watermain, sewer separation	
Willingdon/Park Rd/Minto Pl ORAP	13	Full roadway, watermain, sewer separation	
Clarendon / Harmer ORAP	15	Full roadway, watermain, sewer separation	
Albert St / Scott St	14,15	Full roadway, watermain, sewer separation	
Ruskin / Inglewood ORAP	15	Full roadway, watermain, sewer separation	
Justin/Dunvegan/Lonsdale ORAP	13	Full roadway, watermain, sewer separation	
Bronson (Laurier - Arlington)	14	Full roadway, watermain, sewer renewal	
Main St (Echo - Springhurst)	17	Full roadway, watermain, sewer separation	
Main Street (Springhurst - Riverside)	17	Full roadway, watermain, sewer separation	
Bronson (Canal - Carling)	17	Full roadway, watermain, sewer renewal	
Gladstone (Bank - Cartier)	14	Full roadway, watermain, sewer renewal	
Road Reconstruction / Upgrades			3,180
Rural Road Upgrades & Operational Improvements			
McCordick Rd	21	Roger Stevens Dr To Pollock Rd	
McCordick Rd	21	Pollock Rd To Century Rd West	
McArton Rd	5	Golden Line Rd To Upper Dwyer Hill Rd	
Below the Line			
Stonecrest Rd	5	Kilkenny Dr to 350 m South of Kinburn Side Rd	
Boundary Rd	19	Dead End To Russell Rd	
Frontier Rd	19	Burton Rd To Burton Rd	
Canaan Rd	19	Etienne Rd To 1.46 km North of Etienne Rd	
Marionville Rd	20	8th Line Rd To 9th Line Rd	
Roadside Slope Stabilization			
Donald B Munro Dr	5	At John Shaw Rd	
Bearbrook Rd	2	750m South Of St. Joseph Blvd To 1200m South Of St. Joseph	
Site Specific Locations	CW		
Guiderail Renewal / Replace / Install	CW	Various Locations	

City of Ottawa
Service Area: Transportation Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move	CW		
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Road Resurfacing			50,780
Jeanne D'Arc Blvd	1	Decarie Dr To Lawnsberry Dr	
Thomas A Dolan Pkwy	5	Donald B. Munro Dr To Diamondview Rd	
Fourth Line Rd (OR 5)	21	Reevecraig Dr South To Dilworth Rd (OR 13)	
Donnelly Dr (OR 5)	21	Merlyn Wilson (RR 5) To Reevecraig Dr South	
Merlyn Wilson (OR 5)	21	RMOC South Limit (353m South Of Bart'S Lane) To Donnelly Rd	
Dwyer Hill Rd (OR 3)	21	Franktown Rd (OR 10) To Bleeks Rd	
Herzberg Rd	04,07	March Rd (OR 49) To 50m South Of Carling Av (OR 38)	
Huntmar Dr	6	Maple Grove Rd To Palladium Dr South	
Jockvale Rd	3	Strandherd Dr To Cedarview Rd	
Kennevale Dr	3	Weybridge Dr To Cedarview Rd	
Sherway Dr	3	Fable St To Malvern Dr	
Weybridge Dr	3	Jockvale Rd (S) To Jockvale Rd (N)	
Flanders St	3	Maravista Dr To Kennevale Dr	
Lacolle Way	1	Taylor Creek Dr (W) To Taylor Creek Dr (E)	
Viseneau Dr	2	Boyer Rd To Innes Rd (OR 30)	
Lola St	13	Coventry Rd (OR 50) To King George St	
Davidson Rd	10	Bank St (OR 31, Hwy 31) To Hawthorne Rd	
OR 174	02,11	Montreal Rd (OR 34) To 1 km West of Blair (OR 27)	
Selective Resurfacing	CW	Various Locations	
Crack Sealing	CW	Various Locations	
Preservation Treatments	CW	Various Locations	
Galetta Side Rd (OR 22)	5	Highway 17 To Ferry Rd (OR 7)	
Anderson Rd (OR 27)	2	Innes Rd (OR 30) To Renaud Rd	
Albert St (OR 42)	14	Bay St To Bronson Av (OR 79)	
Des Epinettes Av	01,02,19	Jeanne D'arc Blvd (OR 55) To Tenth Line Rd (OR 47)	

City of Ottawa
Service Area: Transportation Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move		CW	
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Road Resurfacing Cont'd			
Sixth Line (OR 21)	5	Riddell Rd (OR 109) To Thomas A. Dolan Pkwy	
Rothbourne Rd	06,21	Highway 7 (Dead End) To Lloydalex Cr	
Flewellyn Rd	21	Ashton Station Rd To Dwyer Hill Rd (OR 3)	
Flewellyn Rd	21	Dwyer Hill Rd (OR 3) To Munster Rd	
Ashton Station Rd	21	Ormrod Rd To Flewellyn Rd	
Ormrod Rd	21	Ashton Station Rd To Flewellyn Rd	
Crerar Av	16	Merivale Rd (OR 63) To Fisher Av (OR 69)	
Bayshore Dr	7	Richmond Rd (OR 36) To Woodridge Cr (South Leg)	
O'Connor St (OR 87)	14	Isabella St (OR 62) To Somerset St	
Fallowfield Rd (OR 12)	03,09	Cedarview Rd To Greenbank Rd (OR 13)	
Russell Rd (OR 26)	18	St Laurent Blvd (OR 26) To Walkley Rd (OR 74)	
St. Laurent Blvd \ Russell Rd(OR 26)	18	St Laurent Blvd (95m South Of Smyth Rd) To Rail Way Overpass	
Walkley Rd (RR 74)	10,18	Banton Rd To east Joint Cnr Overpass (210m) East of Lancaster Rd	
Watters Rd	1	Charlemagne Blvd To Montcrest Dr	
Montcrest Dr	1	Princess Louise Dr To Watters Rd	
Princess Louise Dr	1	Charlemagne Blvd (W) To Charlemagne Blvd (E)	
Dairy Dr	1	Trim Rd (OR 57) To Dead End	
Woodroffe Av (OR 15)	7	Richmond Rd (OR 59) To NCC Parkway	
La Verendrye Dr	11	Ogilvie Rd to Quincy Av	
Tapiola Cr	10	Johnston Rd West to Johnston Rd East	
Ottawa St	21	Eagleson Rd (OR 49) to Mcbean St (OR 5)	
King St	21	Ottawa St to Dead End	

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move			
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Road Resurfacing Cont'd			
Below the Line			
Delson Dr	19	Trim Rd (OR 57) To Colonial Rd (OR 28)	
Kilmaurs Side Rd	5	Woodkilton Rd To Dunrobin Rd (OR 9)	
Carling Av (OR 38)	7	Richmond Rd (OR 36) To Woodroffe Av S. (OR 15)	
Ogilvie Rd (OR 50)	11	St. Laurent Blvd (OR 26) To Aviation Parkway	
Ogilvie Rd (OR 50)	11	City Park Dr To Gregory Ct	
Meadowlands Dr (OR 51)	8	Woodroffe Av (OR 15) To Merivale Rd (OR 17)	
Withrow Av	8	Meadowlands Dr (OR 51) To Suffolk St	
Stagecoach Rd (OR 25)	20	50m South Of 1931 Stagecoach Rd To 50m North Of 1897 Stagecoach Rd	
Baseline Rd (OR 16)	8	Woodroffe Av (OR 15) To St Helens's Place	
Baseline Rd (OR 16)	08,09,16	St Helen's Place To Merivale Rd (OR 63)	
Baseline Rd (OR 16)	09,16	Merivale Rd (OR 63) To Prince Of Wales Dr (OR 73)	
St. Patrick St (OR 44) East Bound	12	Murray St (OR 82) To Crichton St	
St. Patrick St (OR 44) West Bound	12	Crichton St To 85m West Of Beausoleil Dr	
Mackenzie Av	12	Murray St (OR 82) To 230m North Of Rideau St	
West Hunt Club Rd (OR 32)	8	Moodie Dr (OR 11) To West Lim. Hwy 416 Bridge	
Eagleson Rd (OR 49)	08,23	Cope Dr To Hazeldean Rd (OR 36)	
Antares Dr	9	Hunt Club (OR 32) To Auriga Dr	
Long Island Rd	21	Lena Av To Bridge St (OR 8)	

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move			
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Road Resurfacing Cont'd			
Below the Line			
Slater St (OR 40)	14	Bronson Av (OR 79) To Elgin St (OR 91)	
Westcliffe Rd	8	Seyton Dr To Robertson Rd (OR 36)	
Diamondview Rd	5	Baird Side Rd To Kinburn Side Rd (OR 20)	
Carling Av (OR 38)	7	Corkstown Rd To Bayshore Dr	
Knoxdale Rd	9	Woodroffe Av (OR 15) To West Hunt Club Rd (OR 32)	
Dauphin Rd	18	Haig Dr To Smyth Rd (OR 72)	
Haig Dr	18	Dauphin Rd To Cork St	
Corkstown Rd (OR 18)	7	Moodie Dr (OR 11) To March Rd (OR 49)	
Baycrest Dr	18	Heron Rd (OR 16) To Sandalwood Dr	
Palomino Dr	23	Eagleson Rd (OR 49) To Eagleson Rd (OR 49)	
Maclarens Side Rd	5	Torbolton Ridge Rd To Woodkilton Rd	
Ridgetop Rd	5	Thomas A. Dolan Pkwy To Dunhaven Dr	
Mansfield Rd	21	Munster Rd To Conley Rd	
Beverly St	6	West Ridge Dr To Stittsville Main St (OR 5)	
Jonathan Pack St	6	Abbott St West To Beverly St	
Rideau Rd	20	Bowesville Rd To Albion Rd (OR 25)	
Dunhaven Dr	5	Ridgetop Rd To Stonecrest Rd	
Deschamps Av	12	Vanier Pkwy To Marier Av	
Marier Av	12	Montreal Rd (OR 34) To Shakespeare St	
Burnbank St	9	Grenfell Cr To Dead End	

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move			
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Road Resurfacing Cont'd			
Below the Line			
Walgreen Rd	21	Walgreen Rd (E) To Moonstone Rd	
Westbrook Rd	21	Walgreen Rd To Carp Rd (OR 5)	
Willowlea Rd	21	Moonstone Rd To Westbrook Rd	
Dovercourt Av	15	Broadview Ave To Churchill Av North (OR 65)	
Church St	21	Lenida St (N) To McCordick Rd	
Gregoire Rd (OR 41)	20	Marionville Rd To Carleton Corner Lane	
Marionville Rd	20	40m W Of Gregoire Rd (OR 41) To Gregoire Rd (OR 41)	
Apple Orchard Rd	20	Manotick Station Rd To Stagecoach Rd (OR 25)	
Parkway Rd	20	Stagecoach Rd (OR 25) To Old Prescott Rd	
First Line Rd	21	Bankfield Rd To Roger Stevens Dr (OR 6)	
Rideau Valley South (OR 13)	21	Roger Stevens (OR 6) To North Bridge (South Old Wellington St)	
Kinsella Dr	19	Old Montreal Rd (Queen St) To Dead End	
Royal Orchard Dr	19	Wilhaven Dr To Quillivan Lane	
Prestwick Dr	01,19	Amiens St To Innes Rd (OR 30)	
Yorks Corners Rd	20	Victoria St (OR 6) To Marvelville Rd (OR 4)	
Springhill Rd	20	Bank St (OR 31) To Yorks Corners Rd	
Old Prescott Rd	20	Mitch Owens Rd (OR 8) To Stagecoach Rd (OR 25)	
5th Line Rd	20	Snake Island Rd (OR 6) To Dalmeny Rd	
Kilborn Av	18	Bank St (OR 31) To Kilborn Pl	

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move			
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Road Resurfacing Cont'd			
Below the Line			
Matheson Rd	11	Bathgate Dr To Charlton Dr	
Carson's Rd	13	Montreal Rd (OR 34) To Den Haag Dr	
Charlton Dr	11,13	Lotus St To Plumber Av	
Plumber Av	13	Charlton Dr To Bathgate Dr	
Albion Rd (OR 25)	10, 20, 22	Mitch Owens Rd (Or 8) To Lester Rd (OR 24)	
Iris St	8	Greenbank Rd (OR 13) To Woodroffe Av (OR 15)	
Industrial Rd (Or 30)	18	Riverside Dr (OR 19) To 60 M West Of Russell Rd	
Stonehenge Cr	11	Innes Rd (OR 30) To Innes Rd (OR 30)	
Colonial Rd (OR 28)	19	Trim Rd (OR 28) To Frank Kenny Rd	
Southpark Dr	2	Old Innes Rd to Tauvette St	

City of Ottawa
Service Area: Transportation Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move			
"Ottawa on the Move" is a strategic funding initiative aimed at providing additional budget authority in 2012 to advance planned infrastructure renewal that would have otherwise extended beyond the term of Council. In some cases programming and implementation of projects facilitated by the additional funding will span the term of Council.			
Structures			28,750
Sussex Drive Overpass Bridge	12	requires rehabilitation repairs	
McIlraith Bridge	17	major renewal and widening for cycling	
Old Montreal Rd O/P Becketts Crk	19	complete replacement	
Shopping Centre Rd O/P St Laurent	17	major renewal before LRT work commences	
St Patrick St Bridge O/P	12	major renewal and seismic retrofitting	
Prince of Wales O/P Nepean Crk	9,16	complete replacement	
Minto Bridges Phase 2 - Design	12,13	phase 2 design of these heritage structures	
Billings Bridge Bank St O/P	17,18	requires rehabilitation repairs	
Heron Road U/P ramp	17	replace expansion joints and railings	
Parkway Rd Con 6	20	complete replacement	
Fitzroy Stn Bridge over Carp River [Galleta Side Rd]	5	Design	
Birchgrove Rd Bridge	19	Design	
Carlsbad Ln Bridge O/P Bearbrook Creek	19	Design	
Wall Rd McKinnon Crk Bridge	19	Design	
Jock Trail Bridge Jock Trail Rd O/P Creek	21	Design	
Bank St O/P Greys Creek MD	20	Design	
Hwy 174 O/P Taylor Creek	1	Design	
Jeanne D'Arc Blvd O/P Bilberry Creek	1	Design	
Old Montreal Rd O/P Cardinal Creek	1,19	Design	

City of Ottawa
Service Area: Transportation Services
In Thousands (\$000)

2012 Budget

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move			
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Sidewalk & Curb Rehabilitation			4,005
Site Specific	CW	Various Locations	
Emerald Meadows Dr (South Sidewalk)	23	Eagleson Rd To Pebble Creek Cr	
Mccurdy Dr (South Sidewalk)	23	50m West Of Naismith Cr To Dorey Crt	
Pathway @ Structure 115180 (Cn Rail U/P)	3	Antler Av To Dolan Dr	
Fairfax Av (East And West Sidewalks)	15	Ruskin St To Kenilworth St	
Watters Rd (South Sidewalk)	1	Charlemagne Blvd To Varennes Blvd	
Watters Rd (South Sidewalk)	1	Varennes Blvd To Montcrest Dr	
Watters Rd	1	Montcrest Dr To Trim Rd (OR 57)	
Cedarview Rd (East Path)	3	Rail Road Track Overpass To Fallowfield Rd	
Hazel St (South Sidewalk)	17	Drummond St To Echo Dr	
Drummond St (West Sidewalk)	17	Dead End (North) To Clegg St	
Drummond St (East Sidewalk)	17	Dead End (North) To Clegg St	
Mount Pleasant Av (North/West Sidewalk)	17	Mason Ter To Brown St	
Mount Pleasant Av (South/East Sidewalk)	17	Mason Ter To Brown St	
Aylmer Av (North Sidewalk)	17	Caryle Av To Seneca St	
Aylmer Av (South Sidewalk)	17	Caryle Av To Seneca St	
Pansy Av (North Sidewalk)	17	Caryle Av To Seneca St	
Pansy Av (South Sidewalk)	17	Caryle Av To Seneca St	
Bruyere St (North Sidewalk)	12	Sussex Dr (OR 93) To Dalhousie St	
Cathcart St (South Sidewalk)	12	Sussex Dr (OR 93) To Dalhousie St	
Old Tenth Line Rd (OR 47A) (West Sidewalk)	1	Tenth Line Rd (OR 47) To 1220 Old Tenth Line Rd (Church Entrance)	
Range Rd (East Sidewalk)	12	Laurier Av (OR 48) To Somerset St E	
Cooper St (South Sidewalk)	14	Cartier St To The Driveway	

Project	Ward	Location/Description	\$000's
906566 Ottawa on the Move			
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Sidewalk & Curb Rehabilitation Cont'd			
Pretoria Ave	17	Metcalf St To Bank St (OR 31)	
Pretoria Ave	17	Metcalf St To O'Connor St	
Trim Rd	19	Fairgreen Av To 3585 Trim Rd	
Prestone Dr	1	River Ridge Cr (North Leg) To Amiens St	
Prestone Dr	1	Tompkins Av To Amiens St	
Bowhill	9	35 M West Of Hillhurst Pl. To Overlake Dr	
Fisher Ave (OR 69)	09, 16	Meadowlands Dr (OR 51) To Appleby Private	
O'Connor St (OR 87)	14	Argyle Ave To Catherine St (OR 60)	
McCarthy RD	16	North of Plante North	
#880 Thorndale Dr (Ecole George-Etienne Cartier)	16	40m South Of Provost Dr To 85m West Of Stanstead Rd	
McKitrick Dr	23	Rickey Pl To 90m East Of Sumner St	
Carleton Av	15	Wellington St W (OR 36) To Garrison St (Perth St)	
Waller St (OR 97)	12	Besserer St To Daly Av	
Asphalt Link In Blackburn	2	Eastpark Dr To Red Maple Cr	
Asphalt Link In Blackburn	2	Red Maple Cr To Innes Rd	
Ottawa-Carleton Trail	21	Ashton Station Rd To McCordick Rd	
Ottawa-Carleton Trail	23	Terry Fox Drive To Eagleson Rd	
Ottawa-Carleton Trail	8	Robertson Rd To Timm Drive	
Asphalt Pathway Links City-Wide	CW	Locations To Be Determined	
Broadview (West Side Only)	15	Dovercourt To Carling	
Bearbrook Rd (West Side Only)	2	Innes Rd To 180m North Of Innes Rd	
Additional Sites To Be Confirmed	CW		

City of Ottawa
Environment Committee (Rate Supported)
Capital Program Forecast
In Thousands (\$000)

2012 Draft

2012 Budget

Project Description & Funding	2012	2013	2014	2015	Total
Drinking Water Services					
Renewal of City Assets					
900165 Anthracite Filter Media Replacement Prog	-	-	-	267	267
900169 Facilities Operations Manuals	-	147	-	-	147
900631 Carlington Heights Pumping Stn Expansion	-	3,500	-	-	3,500
901136 Hazeldean Watermain	6,500	-	-	-	6,500
901141 Orleans Transmission Main	750	14,250	-	-	15,000
903295 Brittany Pumping Station	-	-	-	2,500	2,500
903403 Britannia Filter Rebuild/Equip Upgrades	2,000	-	-	-	2,000
904916 Kanata West Feedermain	-	600	5,500	-	6,100
905681 Water System SCADA & Instrument Rehab	750	750	750	750	3,000
905741 Meter Lifecycle Replacement Program	2,500	300	3,200	3,200	9,200
905750 Facility Implementation Strategy	-	125	125	-	250
905818 Water Facilities Master Drawings	-	200	-	-	200
905992 Manotick Supply Watermain	500	5,000	-	-	5,500
906087 Water Rehabilitation - Stand Alone	-	1,000	1,000	1,500	3,500
906324 Lifecycle Renewal Fleet - Water Services	1,300	877	668	1,397	4,242
906348 Service Posts Rehab. 2012	800	800	800	800	3,200
906349 Cathodic Protection Water System 2012	1,800	2,700	2,600	2,600	9,700
906350 Water Treatment Rehab. - 2012	5,900	8,940	12,000	12,000	38,840
906351 Water System Facilities Upgrades 2012	-	750	750	750	2,250
906352 Water Storage Tanks & Reservoirs 2012	-	679	776	873	2,328
906353 Water Facilities Roofing 2012	-	-	650	320	970
906354 Water Pumping Stn Facility Rehab. 2012	1,300	1,746	1,843	1,940	6,829
906356 Water Distribution Sys Improvements 2012	2,100	2,500	2,000	2,000	8,600
906357 Proactive Lead Service Replacement 2012	1,000	1,000	1,000	1,000	4,000
906358 Transmission Mains Condition Assessment	1,600	2,000	3,000	3,000	9,600
906440 Buildings-Water Services	47	-	-	-	47
906481 Risk Assessment-Water Structures-2012	100	-	100	-	200
906486 Watermain Relocation - MTO/Lees	2,350	-	-	7,650	10,000
906487 Trenchless Rehab - Water - 2012	-	1,000	1,000	2,000	4,000
906489 Merton (Scott-Wellington)	1,200	-	-	-	1,200

City of Ottawa
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2012 Budget

Project Description & Funding		2012	2013	2014	2015	Total
906490	Charlotte (Besserer-Laurier)	1,050	-	-	-	1,050
906491	Notre Dame West(St Joseph-East-dead end)	550	-	-	-	550
906492	Transmission Main Rehab - 2012	2,000	3,000	4,000	4,000	13,000
906539	Large Transmission Mains Risk Mitigation	1,000	2,000	2,000	1,500	6,500
906570	Communal Well System Rehab 2012	450	500	727	824	2,501
906620	2013 Infrastructure Mgmt Support System	-	450	-	-	450
906642	Munster Well System Rehab	1,400	-	-	-	1,400
906659	Water Facilities Space Upgrades	1,285	2,075	330	7,500	11,190
906660	Britannia & Lemieux Intake ScreenRenewal	-	200	200	1,400	1,800
906661	Carp Mechanical Renewal	700	-	-	-	700
906662	Carp Water Treatment	-	-	500	1,450	1,950
906663	Forest Ridge Pump Station Renewal	900	-	-	-	900
906664	Hurdman Bridge Pumping Station Renewal	300	8,200	-	-	8,500
906665	Lemieux WPP Intake Ice Mgmt	100	1,100	-	-	1,200
		42,232	66,389	45,519	61,221	215,361
Growth						
900632	Strandherd Rd Feedermain:Greenbank-Fallowfield	375	3,750	-	-	4,125
901183	Trim Road / St Joseph Watermains	1,168	-	-	-	1,168
903296	Ottawa South Pump Station Upgrade	-	-	-	500	500
904297	Kanata West Transmission Mains	280	280	280	280	1,120
904751	Barrhaven Reservoir	-	-	-	6,340	6,340
904918	Limebank Feedermain	-	-	1,000	1,000	2,000
904919	Ottawa S Reservoir Storage	-	500	-	8,000	8,500
904971	SUC Woodroffe	-	-	300	6,400	6,700
904972	Glen Cairn Pumping Station Upgrade	-	-	-	550	550
904974	Forest Ridge Pumping Station Upgrade	-	-	600	-	600
904980	Fallowfield Rd (Reservoir to Cedarview)	-	800	-	-	800
904981	3C/2W Pressure Zone Separation	1,450	-	-	-	1,450
904982	March Rd 406 to 610 upgrade	-	-	-	1,500	1,500
905429	Mer Bleue Rd Reliability Links	-	-	1,545	-	1,545
905802	New Vehicles - Drinking Water Services	-	50	210	250	510
906621	2012 Infrastructure Master Plan (Water)	350	1,150	1,250	-	2,750

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Project Description & Funding	2012	2013	2014	2015	Total
906622 2012 Off Site Reliability Links	111	111	111	111	444
906623 2012 Water & Wastewater EA Studies	300	300	300	300	1,200
	4,034	6,941	5,596	25,231	41,802
Regulatory					
904174 Water Rate Review	-	250	-	-	250
906355 Water Efficiency 2012	-	582	582	582	1,746
	-	832	582	582	1,996
Strategic Initiatives					
906628 2012 Groundwater Studies	-	200	200	200	600
	-	200	200	200	600
	46,266	74,362	51,897	87,234	259,759
Integrated Water & Wastewater					
Renewal of City Assets					
906086 Lady Ellen/Laperriere/McBride	5,500	-	-	-	5,500
906098 Norice / Woodroffe	4,500	-	-	-	4,500
906458 Sewer & Water Repairs/Improvements-2012	2,000	2,000	3,000	4,500	11,500
906459 Sewer Access & Outfalls - 2012	1,500	5,850	5,850	5,900	19,100
906460 Trenchless Rehab - Sewer - 2012	-	1,500	1,500	3,000	6,000
906463 LRT/ISD Coordinated Works	2,000	-	-	-	2,000
906488 Holland Ave (Scott-Tyndall)	3,400	-	-	-	3,400
906635 Hurdman-St-Laurent Watermain Relocation	3,000	32,000	-	-	35,000
	21,900	41,350	10,350	13,400	87,000
Growth					
906629 2012 Rural Servicing Strategy	-	200	200	200	600
	-	200	200	200	600
	21,900	41,550	10,550	13,600	87,600
Wastewater Services					
Renewal of City Assets					
900214 Stormwater Mgmt Fac: Rehab & Env Comply	-	375	555	468	1,398
902140 Sewage Pumping Station Rehab. Program	1,425	1,210	1,875	2,745	7,255
902962 Linear Sewage Improvements Program	-	1,100	1,000	1,500	3,600
903437 ROPEC West Boiler Plant Upgrade	-	-	-	100	100

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Project Description & Funding	2012	2013	2014	2015	Total
903438 ROPEC East Boiler Plant Upgrade	200	-	-	-	200
903439 ROPEC Outfall	-	250	-	11,000	11,250
904141 Sewer Lateral Repairs	4,100	5,696	6,229	6,813	22,838
904567 Orleans Flood Control Remediation	500	-	-	-	500
904752 Barrhaven South Oversizing	-	250	-	-	250
904939 ORAP-Wet Weather IMP - Flow Reduction	1,500	1,500	1,500	1,500	6,000
905005 Rehabilitation of Digester 1 to 4	200	1,300	4,500	3,500	9,500
905053 ORAP-Critical Outfall Monitor Initiative	700	-	-	-	700
905424 Barrhaven S Oversizing North Jock River	100	100	100	77	377
905515 Knoxdale Road (Woodroffe - Newhaven)	500	-	-	-	500
905653 ORAP-Stormwater Mgmt Retrofit MasterPlan	2,000	2,000	9,000	9,000	22,000
905705 ORAP- Combined Sewer Overflow Storage	-	7,500	132,500	-	140,000
905756 ROPEC - Sluice Gates & Concrete Repairs	2,000	-	-	-	2,000
905757 Monahan Constructed Wetland Rehab.	900	-	-	-	900
905806 Flow Monitoring System Rehab. Program	300	945	450	225	1,920
906022 Kanata West Collector Sewers	-	-	7,875	-	7,875
906099 Trunk Sewer Reliability	-	-	-	4,000	4,000
906100 Sanitary Sewer Rehab - Stand Alone	-	1,000	1,000	3,500	5,500
906185 Radio Replacement Program	-	700	-	200	900
906186 ROPEC - Sewage Treatment Rehab. Program	3,000	3,600	4,950	18,350	29,900
906190 Water Env Protec Short Term Initiatives	-	162	183	183	528
906195 Lab Equipment Purchases/Replacement	100	300	300	300	1,000
906196 Wastewater Facilities Upgrades 2012	-	500	500	500	1,500
906323 Lifecycle Renewal Fleet - Wastewater Svc	605	1,083	770	755	3,213
906478 Scoping Pre/Post Drain Culverts - 2012	400	400	400	400	1,600
906479 Drainage Culverts (1m-3m) - 2012	3,460	1,490	1,100	1,200	7,250
906480 Municipal Drain Culvert (1-3m) Prgm-2012	-	1,000	1,000	1,000	3,000
906482 Drainage Culverts (<=1M) - 2012	1,100	1,100	1,100	1,100	4,400
906483 Drainage Culverts - Resurfacing - 2012	740	500	500	500	2,240
906484 Drainage Culverts - Site Specific - 2012	1,000	1,000	1,000	1,000	4,000
906493 Inlet Control Devices - CW - 2012	400	400	400	400	1,600
906494 Joint CA/City Renewal Activity - 2012	-	200	200	200	600

City of Ottawa
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In Thousands (\$000)

2012 Draft

2012 Budget

Project Description & Funding	2012	2013	2014	2015	Total
906495 Ditch Alts - Assess/Implement - 2012	150	150	150	150	600
906496 Acres Pump Station Overflow	250	2,000	-	-	2,250
906577 Wastewater Drainage Roofing 2012	150	180	30	40	400
906630 Wastewater Master Drawings Upgrades	450	250	100	-	800
906636 Rickey Pl Park Retaining Wall rehab	1,000	-	-	-	1,000
906637 Old George St (Osgoode Main-Cuddy)	1,000	-	-	-	1,000
906643 ROPEC-Ops & Technical Bldg Space Upgrade	2,600	-	200	1,000	3,800
906644 StormwaterImprovements - Holmwood Area	2,000	-	-	-	2,000
906645 ROPEC - Primary Clarifier Upgrades	1,750	1,750	-	-	3,500
906646 ROPEC Aeration Piping &Diffusers Replace	400	1,000	1,000	1,600	4,000
906647 ROPEC - Scum Removal Facility Replacemnt	400	1,500	-	-	1,900
906648 ROPEC - Power Cogeneration Plant Upgrade	1,450	-	-	-	1,450
906649 Hauled Waste/Septage Receiving Facility	400	3,600	-	-	4,000
906650 ROPEC - Process Facility - Environ. Sys	600	1,200	500	-	2,300
906670 ROPEC Treatment Facility Develop. Plan	500	-	-	-	500
906671 Collection Sys. Condition Assesment Prog	400	1,120	1,500	1,750	4,770
	38,730	48,411	182,467	75,056	344,664
Growth					
903345 Kanata West Pump Station & Forcemain	1,750	556	19,250	-	21,556
903346 Kanata West Sewer OverSizing	500	500	500	525	2,025
904984 South Nepean Collector Ph 2	300	2,700	-	-	3,000
904985 North Kanata Sewer Ph 2	450	8,600	-	-	9,050
904986 Tri-Township/March Ridge Repl	-	-	4,000	-	4,000
904987 Fernbank Sanitary Sewer	-	500	-	500	1,000
904988 March Pump Station Conversion	-	150	950	-	1,100
904989 Hazeldean Pump Station Upgrade	-	-	2,599	-	2,599
904990 Hazeldean Road Sanitary Sewer	-	1,301	-	-	1,301
905416 South Nepean Collector Ph 3	450	4,350	-	-	4,800
905421 Orleans S Business Park San Sewer	-	300	305	-	605
905423 Riverside S Community Sanitary	298	298	298	298	1,192
905425 Kanata Town Centre Trunk Sewer	-	-	-	360	360
905820 New Vehicles - Wastewater	-	250	250	250	750

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2012 Budget

Project Description & Funding	2012	2013	2014	2015	Total
905964 Jackson Trails Sewer Oversizing	-	100	100	-	200
905990 Kanata Lakes North Oversizing	-	-	48	-	48
905991 SUC Nepean S Oversizing South Jock River	819	-	-	-	819
906626 2012 Servicing Studies Development	200	-	200	-	400
	4,767	19,605	28,500	1,933	54,805
Regulatory					
902142 ORAP-ROPEC - Effluent Declorination	800	-	-	-	800
904176 Sewer Rate Review	-	-	250	-	250
906191 Protective Plumbing	-	849	866	883	2,598
906194 Municipal Drain Improvements	-	330	330	330	990
	800	1,179	1,446	1,213	4,638
Strategic Initiatives					
905787 ORAP-Water Environment Strategy	-	250	250	-	500
905788 ORAP-Public Education & Outreach	75	75	75	75	300
906624 2012 Infrastructure Master Plan (Sewer)	300	-	-	-	300
906625 2012 Infrastructure Master Plan (Storm)	200	-	-	-	200
906627 2012 Watershed/Subwatershed Planning	250	250	250	-	750
906631 2012 Stream Restoration Projects	560	200	200	200	1,160
906632 Flood Plain Mapping	225	225	225	225	900
	1,610	1,000	1,000	500	4,110
	45,907	70,195	213,413	78,702	408,217
Integrated Roads, Water & Wastewater					
Renewal of City Assets					
901160 Integrated Program - Bulk Proj	9,770	-	37,070	30,570	77,410
905553 West-end Flood Mitigation	23,685	-	-	-	23,685
905594 ORAP-Harvey St /Concord St N / Havelock	4,760	-	-	-	4,760

City of Ottawa
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In Thousands (\$000)

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2012 Budget

Project Description & Funding	2012	2013	2014	2015	Total
905595 ORAP-Rideau (Dalhousie-Chapel)	12,213	-	-	-	12,213
905865 Meadowlands Area Watermains	6,830	-	-	-	6,830
906045 Intensification Studies - 2011	-	250	250	250	750
906451 Infrastructure Assessment & Data Collect	5,650	-	2,860	4,590	13,100
906452 Scoping Pre/Post Engineering	600	-	450	450	1,500
906453 R-O-W/Easement Adjustments	600	-	300	300	1,200
906454 Guidelines, Specs & Engineering	210	-	100	100	410
906455 Surveys & Mapping	450	-	245	300	995
906456 Admiral Ave. (Crerar Ave - Anna Ave)	1,500	-	-	-	1,500
906464 Road Resurfacing - CW	540	-	800	400	1,740
	66,808	250	42,075	36,960	146,093
Transportation Services-Int					
Renewal of City Assets					
906566 Ottawa on the Move	208,859	-	-	-	208,859
	208,859	-	-	-	208,859
Grand Total	389,740	186,357	317,935	216,496	1,110,528
Revenue	36,648	5,430	88,764	4,255	135,097
Development Charges Cash/Debt	18,330	30,028	33,618	37,803	119,779
Other Dedicated Reserves	1,905	1,960	1,438	2,152	7,455
Net Rate Requirement	332,857	148,939	194,115	172,286	848,197
Funding:					
Capital Reserve Fund					
Wastewater	136,846	41,908	48,303	55,727	282,784
Water	120,969	46,946	52,181	58,772	278,868
	257,815	88,854	100,484	114,499	561,652
Debt Funding					
Wastewater Debt	37,521	18,706	81,878	40,920	179,025
Water Debt	37,521	41,379	11,753	16,867	107,520
	75,042	60,085	93,631	57,787	286,545
Grand Total	332,857	148,939	194,115	172,286	848,197

*Listing does not include the Tax supported portions of the program.

City of Ottawa
Capital Reserve Continuities - 2012
In Thousands (\$000)

Capital Reserve	2012 Opening Balance	Contributions	Transfers to Capital	Projected Closing Balance
Rate Supported				
Water	27,468	56,311	(80,469)	3,310
Wastewater	28,585	54,456	(85,764)	(2,723)
Water Fleet	1,232	2,507	(141)	3,598
Wastewater Fleet	547	1,173	-	1,720
	57,832	114,447	(166,374)	5,905

City of Ottawa
Capital Reserve Continuities - 2013
In Thousands (\$000)

Capital Reserve	2013 Opening Balance	Contributions	Transfers to Capital	Projected Closing Balance
Rate Supported				
Water	3,310	59,156	(57,946)	4,520
Wastewater	(2,723)	59,657	(56,408)	526
Water Fleet	3,598	993	-	4,591
Wastewater Fleet	1,720	426	(161)	1,985
	5,905	120,232	(114,515)	11,622

City of Ottawa
Capital Reserve Continuities - 2014
In Thousands (\$000)

Capital Reserve	2014 Opening Balance	Contributions	Transfers to Capital	Projected Closing Balance
Rate Supported				
Water	4,520	64,392	(64,181)	4,731
Wastewater	526	66,053	(65,803)	776
Water Fleet	4,591	1,138	(306)	5,423
Wastewater Fleet	1,985	488	(437)	2,036
	11,622	132,071	(130,727)	12,966

**City of Ottawa
 Capital Reserve Continuities - 2015
 In Thousands (\$000)**

Capital Reserve	2015 Opening Balance	Contributions	Transfers to Capital	Projected Closing Balance
Rate Supported				
Water	4,731	70,981	(68,772)	6,940
Wastewater	776	73,474	(73,227)	1,023
Water Fleet	5,423	1,138	-	6,561
Wastewater Fleet	2,036	488	(359)	2,165
	12,966	146,081	(142,358)	16,689

Development Charge Continuity
2012 Forecast
In Thousands (\$000)

Deferred Revenue Account	2012 Opening Balance	Development Charges	Debt Service Charges*	Capital Expenditures	Projected Closing Balance
SANITARY WASTEWATER SERVICES	(6,634)	8,017	-	(13,060)	(11,677)
STORM SEWERS (STORMWATER DRAINAGE)	(1,715)	105	-	-	(1,610)
STORMWATER MANAGEMENT (PONDS)	(58,311)	-	(3,390)	-	(61,701)
STUDIES	(2,143)	974	-	(530)	(1,699)
WATER SERVICES	(35,186)	4,425	(1,662)	(3,286)	(35,709)
Total	(103,989)	13,521	(5,052)	(16,876)	(112,396)

*Debt Service Charges includes both Long-term Debt Service Charges and Estimated Debt Service Charges for new issues.

Development Charge Continuity
2013 Forecast
In Thousands (\$000)

Deferred Revenue Account	2013 Opening Balance	Development Charges	Debt Service Charges*	Capital Expenditures	Projected Closing Balance
SANITARY WASTEWATER SERVICES	(11,677)	8,590	-	(19,595)	(22,682)
STORM SEWERS (STORMWATER DRAINAGE)	(1,610)	112	-	(78)	(1,576)
STORMWATER MANAGEMENT (PONDS)	(61,701)	-	(3,167)	-	(64,868)
STUDIES	(1,699)	1,065	-	(362)	(996)
WATER SERVICES	(35,709)	4,702	(1,682)	(8,249)	(40,938)
Total	(112,396)	14,470	(4,849)	(28,284)	(131,059)

*Debt Service Charges includes both Long-term Debt Service Charges and Estimated Debt Service Charges for new issues.

Development Charge Continuity
2014 Forecast
In Thousands (\$000)

Deferred Revenue Account	2014 Opening Balance	Development Charges	Debt Service Charges*	Capital Expenditures	Projected Closing Balance
SANITARY WASTEWATER SERVICES	(22,682)	8,958	-	(26,778)	(40,502)
STORM SEWERS (STORMWATER DRAINAGE)	(1,576)	118	-	(115)	(1,573)
STORMWATER MANAGEMENT (PONDS)	(64,868)	-	(3,167)	-	(68,035)
STUDIES	(996)	1,110	-	(552)	(438)
WATER SERVICES	(40,938)	4,870	(1,700)	(4,883)	(42,651)
Total	(131,059)	15,055	(4,867)	(32,328)	(153,199)

*Debt Service Charges includes both Long-term Debt Service Charges and Estimated Debt Service Charges for new issues.

Development Charge Continuity
2015 Forecast
In Thousands (\$000)

Deferred Revenue Account	2015 Opening Balance	Development Charges	Debt Service Charges*	Capital Expenditures	Projected Closing Balance
SANITARY WASTEWATER SERVICES	(40,502)	8,958	-	(14,598)	(46,142)
STORM SEWERS (STORMWATER DRAINAGE)	(1,573)	118	-	(97)	(1,552)
STORMWATER MANAGEMENT (PONDS)	(68,035)	-	(3,602)	-	(71,637)
STUDIES	(438)	1,110	-	(240)	433
WATER SERVICES	(42,651)	4,870	(2,476)	(16,723)	(56,981)
Total	(153,199)	15,055	(6,078)	(31,658)	(175,880)

*Debt Service Charges includes both Long-term Debt Service Charges and Estimated Debt Service Charges for new issues.

City of Ottawa
Capital Debt Model (Rate Supported)
 In Thousands (\$000)

2012 Draft

2012 Budget

	2011	2012	2013	2014	2015
Rate Supported Debt Summary					
Opening Issued Net Debt	150,340	286,374	368,430	393,493	431,733
Estimated New Issues	144,047	97,000	40,000	54,100	97,219
Principal Payments and Sinking Fund Increases	(8,013)	(14,944)	(14,937)	(15,860) -	17,885
Closing Issued Net Debt	286,374	368,430	393,493	431,733	511,067
Opening Unissued Net Debt	293,981	170,638	150,284	172,113	212,934
New Authority	20,704	76,646	61,829	94,921	63,932
New Issues	(144,047)	(97,000)	(40,000)	(54,100) -	97,219
Closing Unissued Net Debt	170,638	150,284	172,113	212,934	179,647
Total Debt Issued and Unissued	457,012	518,714	565,606	644,667	690,714
Debt Service Charges					
Principal	7,488	14,383	14,814	15,662	17,609
Interest	10,621	12,505	15,756	17,407	19,999
	18,109	26,888	30,570	33,069	37,608
Water Rate Supported					
Opening Issued Net Debt	98,146	121,794	166,395	180,365	193,769
Estimated New Issues	26,910	49,500	20,000	20,000	60,206
Principal Payments and Sinking Fund Increases	(3,262)	(4,899)	(6,030)	(6,596)	(7,171)
Closing Issued Net Debt	121,794	166,395	180,365	193,769	246,804
Opening Unissued Net Debt	98,541	70,828	58,849	80,228	71,981
New Authority	(803)	37,521	41,379	11,753	16,867
New Issues	(26,910)	(49,500)	(20,000)	(20,000)	(60,206)
Closing Unissued Net Debt	70,828	58,849	80,228	71,981	28,642
Total Debt Issued and Unissued	192,622	225,244	260,593	265,750	275,446
Debt Service Charges					
Principal	3,261	4,899	6,024	6,584	7,153
Interest	4,513	5,295	7,394	8,209	9,108
	7,774	10,194	13,418	14,793	16,261

City of Ottawa
Capital Debt Model (Rate Supported)
 In Thousands (\$000)

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2012 Budget

	2011	2012	2013	2014	2015
Water Development Charge Supported					
Opening Issued Net Debt	4,478	13,559	12,284	10,968	15,354
Estimated New Issues	9,500	-	-	5,746	-
Principal Payments and Sinking Fund Increases	(419)	(1,275)	(1,316)	(1,360)	(1,851)
Closing Issued Net Debt	13,559	12,284	10,968	15,354	13,503
Opening Unissued Net Debt	14,540	5,746	7,331	7,740	2,274
New Authority	706	1,585	409	280	6,085
New Issues	(9,500)	-	-	(5,746)	-
Closing Unissued Net Debt	5,746	7,331	7,740	2,274	8,359
Total Debt Issued and Unissued	19,305	19,615	18,708	17,628	21,862
Debt Service Charges					
Principal	419	1,275	1,316	1,360	1,851
Interest	170	387	366	340	625
	589	1,662	1,682	1,700	2,476
Wastewater Rate Supported					
Opening Issued Net Debt	47,264	101,605	141,485	154,859	172,951
Estimated New Issues	58,437	47,500	20,000	25,000	37,013
Principal Payments and Sinking Fund Increases	(4,096)	(7,620)	(6,626)	(6,908)	(7,567)
Closing Issued Net Debt	101,605	141,485	154,859	172,951	202,397
Opening Unissued Net Debt	128,445	90,710	80,731	79,437	136,315
New Authority	20,702	37,521	18,706	81,878	40,920
New Issues	(58,437)	(47,500)	(20,000)	(25,000)	(37,013)
Closing Unissued Net Debt	90,710	80,731	79,437	136,315	140,222
Total Debt Issued and Unissued	192,315	222,216	234,296	309,266	342,619
Debt Service Charges					
Principal	3,573	7,089	6,570	6,814	7,434
Interest	5,917	4,553	5,733	6,595	7,835
	9,490	11,642	12,303	13,409	15,269

City of Ottawa
Capital Debt Model (Rate Supported)
 In Thousands (\$000)

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2012 Budget

	2011	2012	2013	2014	2015
Wastewater Development Charge Supported					
Opening Issued Net Debt	452	49,416	48,266	47,301	49,659
Estimated New Issues	49,200	-	-	3,354	-
Principal Payments and Sinking Fund Increases	(236)	(1,150)	(965)	(996)	(1,296)
Closing Issued Net Debt	49,416	48,266	47,301	49,659	48,363
Opening Unissued Net Debt	52,455	3,354	3,373	4,708	2,364
New Authority	99	19	1,335	1,010	60
New Issues	(49,200)	-	-	(3,354)	-
Closing Unissued Net Debt	3,354	3,373	4,708	2,364	2,424
Total Debt Issued and Unissued	52,770	51,639	52,009	52,023	50,787
Debt Service Charges					
Principal	235	1,120	904	904	1,171
Interest	21	2,270	2,263	2,263	2,431
	256	3,390	3,167	3,167	3,602

City of Ottawa
Environment-Rate Committee
Capital Works-in-Progress (at September 30th, 2011)
In Thousands (\$000)

Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
Drinking Water Services			
Renewal of City Assets			
900150 Fleet St. Pumping Station - Structural R	17,069	16,918	151
900163 Water Facilities-Master Drawings Program	1,268	965	303
900165 Anthracite Filter Media Replacement Prog	909	693	216
900169 Facilities Operations Manuals	846	654	192
900196 Automated Meter Reading	33,510	28,197	5,313
900202 Condition Assessment Critical Sys Links	1,980	1,978	2
900631 Carlington Heights Pumping Stn Expansion	2,919	131	2,788
901135 Water Distribution System Improvements	8,381	8,399	(18)
901139 1W/2W Feedermain Link	49,230	42,390	6,840
901141 Orleans Transmission Main	1,100	355	745
902043 Water Loss Control Program	1,850	962	887
902144 Water Storage Tanks & Reservoirs Rehab	288	152	136
902145 Water Facilities Rehabilitation Program	3,613	24	3,589
902146 Water Pumping Station Facilities Rehab	1,277	1,113	164
902148 Hurdman Bridge Pumping Station Rehab	700	5	695
902149 Communal Well Systems Rehabilitation	729	627	102
902939 Lemieux Island FilterRebuild/Struct Rep	4,376	3,582	794
902955 Water Purification Plant Facilities Proj	3,706	2,930	776
902956 Lemieux Island Clearwell Repairs	8,380	4,628	3,752
902957 Water Treatment Equipment Upgrade Proj.	7,741	6,965	776
903403 Britannia Filter Rebuild/Equip Upgrades	7,550	1,025	6,525
903407 Water System SCADA Replacement	12,461	8,417	4,044
903445 Vars Treatment Improvements	510	383	127
904214 Trenchless Rehabilitation - Water	1,575	1,538	37
904259 Hwy417 Water TransMain-Cyrville Des/Cons	700	0	700
904735 Carp Pumping Station Capacity Expansion	250	40	210
904736 Hwy 417 Water Transmission Main	700	153	547
904737 Trenchless Rehabilitation - Water	240	-	240

City of Ottawa
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Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
904783 Infrastructure Master Plan Update	500	-	500
904878 Wren Rd (Swans Way-Coxford) Design	530	259	271
904879 Johnston Rd (Tapiola-215m East) Design	3,090	103	2,987
904880 Trenchless Rehabilitation - Water	2,575	2,132	443
904968 Water Roofing 2009	850	921	(71)
904973 Leitrim Supply Watermain	3,850	213	3,637
904976 Infrastructure Management Support System	450	-	450
905007 Hwy 417 Coord with MTO - Lees Relocate	150	-	150
905041 Fleet Renewal - Drinking Water	1,249	1,248	1
905054 Woodroffe TransMain(Hunt Club-Sportsplex	6,500	6,352	148
905465 Lifecycle Renewal Fleet - Water Services	276	276	-
905544 Trenchless Rehabilitation - Water	1,150	1	1,149
905545 Carling Ave (Schneider - March)	3,430	2,232	1,198
905546 Thames Str (Merivale - Dead End)	3,665	2,342	1,323
905547 Canotek Rd /Polytek (125 m South)	1,830	1,137	693
905550 TransMain Rehab Master Plan	350	334	16
905681 Water System SCADA & Instrument Rehab	400	-	400
905740 Condition Assessment Critical Sys Links	425	424	1
905750 Asset Management Strategy	275	-	275
905751 Water Facility Roofing	565	457	108
905803 Water Distribution System Improvements	880	1,348	(468)
905807 Water Storage Tanks & Reservoirs Rehab	88	-	88
905808 Water Treatment Rehabilitation Program	5,820	1,530	4,290
905809 Water Pumping Station Facilities Rehab	980	979	1
905810 Communal Well Systems Rehabilitation	339	136	203
905812 Water System Facility Upgrades	750	-	750
905813 Water Treatment Equipment Upgrade Proj.	700	178	522
905814 Service Posts Rehabilitation Program	650	785	(135)
905815 Cathodic Protection Water System	2,100	2,435	(335)
905818 Water Facilities Master Drawings	100	-	100

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Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
905821 Proactive Lead Service Replacement Prog.	1,000	948	52
906073 Lower Access Bridge - Fleet St SN017150	300	54	246
906074 Risk Assessment-Water Structures	300	11	289
906081 Trenchless Rehab-Water	1,000	-	1,000
906082 Pinhey (Scott-Armstrong) / Ladouceur	1,600	99	1,501
906083 Saunderson (Smyth - Haig)	1,400	14	1,386
906084 DeLong (Oriole - Rothwell)	1,300	11	1,289
906085 Wesmar (Alta Vista E-Dead End)	1,400	328	1,072
906086 Lady Ellen/Laperriere/McBride	400	11	389
906118 Lifecycle Renewal Fleet - Water Services	450	305	145
906187 Water Treatment Rehab 2011	8,960	-	8,960
906188 Water Facilities Roofing 2011	335	-	335
906189 Water Storage Tanks & Reservoirs 2011	685	-	685
906197 Water System Facilities Upgrades 2011	1,800	-	1,800
906198 Water Pumping Station Facility Rehab2011	1,552	-	1,552
906199 Condition Assess -Critical Sys Links2011	970	236	734
906200 Water Distribution Sys Improvements 2011	1,000	475	525
906201 Service Posts Rehab 2011	423	130	293
906202 Cathodic Protection Water System 2011	2,000	1,102	898
906203 Proactive Lead Service Replacement 2011	1,000	1,099	(99)
906204 Communal Well System Rehab 2011	536	-	536
	246,785	163,867	82,917
Growth			
900183 East Urban Community Feedermain Needs	8,940	7,470	1,470
900505 Lemieux Island WPP Expansion	48,360	46,452	1,908
900632 Strandherd Rd Feedermain: Greenbank-Fallowfield	250	1	249
900965 New Vehicles - Drinking Water Services	3,589	2,701	888
901138 2W/3W Pumping Station	10,875	10,804	71
901142 Barrhaven Pumping Station Expansion	350	9	341
901143 Britannia WPP Expansion	400	255	145

City of Ottawa
Environment-Rate Committee
Capital Works-in-Progress (at September 30th, 2011)
In Thousands (\$000)

Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
901145 2C/2W Feedermain Link	25,278	12,563	12,715
901183 Trim Road / St Joseph Watermains	5,398	768	4,630
902206 Ottawa South Pumping Station Upgrade	3,590	199	3,391
902572 Water & Wastewater EA Studies	1,950	1,672	278
903292 Watters Road (Montcrest to Trim)	152	-	152
903293 Glen Cairn Pumping Station Discharge Pipe #2	1,455	-	1,455
903416 Off-site Reliability Links	793	210	583
904297 Kanata West Transmission Mains	380	1	379
904810 Leitrim South Watermain Oversizing	1,182	1,182	-
904914 Off Site Reliability Links 2009	100	-	100
904970 SUC Greenbank	1,600	2	1,598
904975 Barrhaven Pumping Station conversion to 3C	900	-	900
904979 Barrhaven Res Pump Upgrades	330	-	330
904981 3C/2W Pressure Zone Separation	450	-	450
905430 Off Site Reliability Links	211	-	211
905432 Trim Road (Pinnacle to BHBP)	1,103	-	1,103
905802 New Vehicles - Drinking Water Services	200	-	200
905811 Water & Wastewater EA Studies	300	-	300
905992 Manotick Supply Watermain	350	-	350
	118,486	84,287	34,199
Regulatory			
900206 Water Efficiency	2,350	2,350	-
900510 Waste Management	42,300	42,105	195
904174 Water Rate Review	350	227	123
904484 Source Water Protection	178	448	(270)
905800 Water Efficiency	1,330	384	946
906184 Water Efficiency	582	-	582
	47,090	45,515	1,575
Strategic Initiatives			
900851 Water Master Plan Update	400	267	133

City of Ottawa
Environment-Rate Committee
Capital Works-in-Progress (at September 30th, 2011)
In Thousands (\$000)

2012 Draft

Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
901068 Britannia WPP - Hot Water Heating System	4,505	4,453	52
902570 Water & Wastewater Strategic Planning	885	727	158
902861 Navan Road Local Improvement	200	145	55
905427 Groundwater Management Phase 2	500	-	500
905428 Groundwater Studies	182	-	182
905682 Stream Restoration Projects 2010	200	159	41
	6,872	5,751	1,121
Drinking Water Services Total	419,233	299,421	119,812
Environment			
Strategic Initiatives			
903255 Lower Rideau Watershed Strategy	65	113	(48)
	65	113	(48)
Environment Total	65	113	(48)
Integrated Water & Wastewater			
Renewal of City Assets			
903209 Merivale Gdns/Glens Servicing Study	180	144	36
903869 Easement: Checkers - Woodroffe	645	291	354
904213 Trenchless Rehabilitation - Sewers	1,650	1,590	60
904411 St Joseph Blvd (Taylor Cr Rd - Trim Rd)	1,970	78	1,892
904747 Island Park Drive Area Projects	3,180	312	2,868
904890 Juniper St (Champlain - Willow)	855	744	111
905520 Sewer & Water Repairs / Improvements	1,405	1,277	128
905521 Renewal - Sewer Access & Outfalls	250	10	240
905549 Springhurst Ave (Main-Chestnut)	2,240	1,361	879
905571 Intensification Studies - 2010	500	18	482
906058 Sewer & Water Improvements	3,500	315	3,185
906059 Elgin (Pretoria - Isabella)	850	226	624
906215 Prince of Wales Watermain	2,000	960	1,040

City of Ottawa
Environment-Rate Committee
Capital Works-in-Progress (at September 30th, 2011)
In Thousands (\$000)

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Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
906305 John St Sewer Outfall	2,000	564	1,436
	21,225	7,892	13,333
Strategic Initiatives			
902280 Central Canada Exhibition Servicing	800	620	180
902571 Rural Servicing Strategy	1,850	817	1,033
	2,650	1,437	1,213
Integrated Water & Wastewater Total	23,875	9,329	14,546
Wastewater Services			
Renewal of City Assets			
900214 Stormwater Mgmt Fac: Rehab & Env Comply	3,118	1,749	1,369
900221 Munster Lagoons Rehabilitation	15,599	15,308	292
900228 Orleans/Cumberland Collector Flood Prot	17,733	17,111	621
900250 ROPEC Plant Rehabilitation & Upgrade	13,619	13,386	233
900257 Water Env. Protec Short Term Initiatives	2,194	2,084	110
900260 Operational Loss Control Program	983	668	315
900960 SCADA Upgrade - Remote Sewer Facilities	8,120	8,006	114
901148 Extraneous Flow Removal - CW	2,585	2,395	190
901240 McEwan - Water Quality & Erosion Control	4,733	4,906	(173)
901297 Trenchless Rehabilitation-Storm Sewers	630	615	15
901859 Sawmill Creek Constructed Wetland	12,550	12,522	28
902139 Sanitary Sewer Trunk Rehabilitation	1,700	1,653	47
902140 Sewage Pumping Station Rehab. Program	6,651	5,739	912
902141 Lab Equipment Purchase/Replacement	1,515	1,245	270
902356 Flow Monitoring Program	4,745	2,432	2,313
902357 Regulators Upgrade & Real Time Control	20,450	19,742	708
902580 Scoping Pre/Post Engineering - Innes	1,350	898	452
902962 Linear Sewage System Rehab. Program	4,054	1,862	2,192
902965 Wastewater Facilities Upgrades	4,764	4,547	217
903428 Odour and Corrosion Control	5,662	4,259	1,403

City of Ottawa
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Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
903676 O'Connor Flood Relief Study	2,150	1,286	864
903895 Joint Conserv.Act./City Activities 2006	50	10	40
903900 Old Riverside: Hincks to Transitway	1,200	637	563
904141 Sewer Lateral Repairs	19,862	15,525	4,337
904206 Drainage Culverts (>1000mm)	4,509	4,503	6
904216 Joint CA /City Renewal	50	-	50
904470 Britannia Village-OttRiver Flood Protect	670	145	525
904515 SCADA Upgrade: Crit MH, Flow Mon & SWFac	3,950	3,411	539
904567 Orleans Flood Control Remediation	4,692	3,559	1,133
904739 Drainage Culverts (<3,000mm) Rehab/Repl	5,708	5,679	29
904740 Scoping Pre/Post Eng for 2009 Culverts	205	187	18
904745 Sewer Access Structure Rehabilitation	6,000	5,025	975
904752 Barrhaven South Oversizing	1,100	0	1,100
904753 Leitrim Sanitary Pump Station Expansion	450	274	176
904873 Renewal-Drainage Culverts (1m-3m span)	1,265	1,264	1
904881 Joint CA/City Renewal Activities 2009	50	24	26
904882 Ditch Alterations - Assess/Implement	150	83	67
904883 UCSA Inlet Control/Floatables	3,550	550	3,000
904884 Renewal-Drainage Culverts (<=1m span)	990	990	-
904885 Trenchless Rehabilitation-San Sewers	1,750	1,739	11
904886 Rideau Glen San Sewer-Local Improvement	1,725	1,692	33
904910 Old Digester Decommissioning	4,200	434	3,766
904939 ORAP-Wet Weather IMP - Flow Reduction	4,005	193	3,812
904940 Pollution Prevent &Control-Implement	2,000	216	1,784
904967 Wastewater Drainage Roofing 2009	200	210	(10)
905004 ORAP-Ottawa River Quality Modelling Init.	522	269	253
905005 Rehabilitation of Digester 1 to 4	4,500	162	4,338
905028 ORAP-Combined Sewer Overflow Reduction	7,500	1,290	6,210
905042 Fleet Renewal - Wastewater	204	177	27
905053 ORAP-Critical Outfall Monitor Initiative	5,000	2,714	2,286

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Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
905060 ORAP-Regulator Upgrade&Real Time Control	9,928	9,118	810
905292 ISF-Drainage Culverts - Prince of Wales	200	210	(10)
905417 Infrastructure Master Plan (Sewer)	550	134	416
905418 Infrastructure Master Plan (Storm)	350	87	263
905422 Vars Culverts	192	-	192
905424 Barrhaven S Oversizing North of Jock River	150	-	150
905466 Lifecycle Renewal Fleet -Wastewater Svcs	228	225	3
905515 Knoxdale Road (Woodroffe - Newhaven)	4,020	3,926	94
905533 Scoping Pre/Post Drn Culverts - 2010	200	197	3
905534 Renewal-Drainage Culverts (1m-3m span)	2,500	2,304	196
905535 Municipal Drain Culverts(1m-3m Span)	1,200	727	473
905536 Renewal-Drainage Culverts (<=1m span)	1,300	1,143	157
905537 Drainage Culvrt-Site Specifc Repair-2010	1,640	1,526	114
905551 Trenchless Rehabilitation-Storm Sewers	500	163	337
905552 Pineview Area - Surface Drainage	950	852	98
905554 Joint CA/City Renewal Activities 2010	200	93	107
905555 Sawmill Creek SWM Pond	500	-	500
905556 Ditch Alts - Assess/Implement - 2010	150	14	136
905557 Inlet Control Devices - CW - 2010	400	14	386
905558 Merivale Road San Local Improvement	250	114	136
905559 Trenchless Rehabilitation-San Sewers	800	380	420
905560 ORAP-Eastern Subwatershed SWM Retrofit	750	89	661
905705 ORAP- Combined Sewer Overflow Storage	2,500	3	2,497
905755 Merivale Storm Sewer repair	1,200	968	232
905756 ROPEC - Sluice Gates & Concrete Repairs	4,000	2,755	1,245
905757 Monahan Constructed Wetland Rehab.	2,000	109	1,891
905762 ORAP-Monitoring & Source Control Program	520	27	493
905795 Graham Crk-Stonehedge Erosion Cntrl	50	26	24
905801 Water Env. Protec Short Term Initiatives	152	-	152
905804 Extraneous Flow Removal - CW	550	94	456

City of Ottawa
Environment-Rate Committee
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In Thousands (\$000)

2012 Draft

Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
905805 Lab Equipment Purchase/Replacement	300	-	300
905806 Flow Monitoring System Rehab. Program	760	-	760
905817 Wastewater Facilities Upgrades	500	5	495
905822 Wastewater Drainage Roofing 2010	225	89	136
906070 Scoping Pre/Post Drn Culverts	380	369	11
906071 Drainage Culverts (1m-3m)	3,270	706	2,564
906072 Municipal Drain Culvert (1-3m) Prgm	500	0	500
906075 Drainage Culverts (<=1m)	1,350	757	593
906076 Drainage Culverts (<=1m) Resurfacing	990	700	290
906077 Drainage Culverts - Site-Specific	350	255	95
906089 Trenchless Rehab-Storm	1,000	1	999
906091 Joint CA/City Renewal Activity	200	7	193
906092 Ditch Alts - Assess/Implement	150	-	150
906094 ORAP-Non Integrated Works	3,740	-	3,740
906095 Inlet Control Devices - CW	400	14	386
906096 Trenchless Rehab-Sanitary	4,500	192	4,308
906097 Woodroffe Ave (Baseline-417)	4,500	219	4,281
906098 Norice / Woodroffe	350	323	27
906119 Lifecycle Renewal Fleet - Wastewater Svc	500	438	62
906149 ISF-Collector Sewer Lining	3,800	3,774	26
906186 ROPEC Capitalized Maintenance Projects	7,370	604	6,766
906190 Water Env Protec Short Term Initiatives	162	97	65
906195 Lab Equipment Purchases/Replacement	300	-	300
906206 Wastewater Drainage Roofing 2011	450	3	447
990254 1996 Rideau River Stormwater Management	200	197	3
	295,139	207,427	87,712
Growth			
900217 Leitrim Pumping Station, Forcemain & Gr	6,110	5,899	211
900220 Forest Valley Pumping Station, Forcemain	6,093	5,518	575
900225 Jock River Collector	450	26	424

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Project Description		Authority	Total Expenditures & Commitments	Total Unspent Authority
900233	West Rideau Collector Sewer Extension	12,647	11,481	1,166
900239	Cumberland Trunk Sewer	8,837	7,876	961
900823	Stormwater Facilities in Parks	728	277	451
901153	Stormwater Mgmt. Fac.-Cumb/Taylor	1,566	1,517	49
902195	Taylor Creek Erosion Works Phase 1 & 2	904	637	267
902200	Servicing Studies Development Program	2,622	2,054	568
903095	ROPEC Plant Digester Expansion	73,850	73,629	221
903223	Cardinal Creek Erosion Monitor	1,073	47	1,026
903229	Foster & Kennedy Burnett SWMF EA'S	740	739	1
903252	Sanitary Sewer Oversizing Program	1,816	396	1,420
903300	Signature Ridge Pumping Station & Forcemain	2,009	3	2,006
903307	Jackson Trail Pumping Station & Forcemain	3,800	3,280	520
903342	Storm Water Pond-Channelization Area E-6	14,122	8	14,114
903343	Area E-8 Osgoode (Greely)Erosion Control	24	22	2
903345	Kanata West Pumping Station & Forcemain	556	3	553
903346	Kanata West Sewer Oversizing	500	-	500
903965	Bilberry Creek Indust Gravity Outlet Ph2	5,304	5,378	(74)
904985	North Kanata Sewer Ph 2	600	-	600
904987	Fernbank Sanitary Sewer	1,000	-	1,000
904989	Hazeldean Pumping Station Upgrade	1,111	919	192
905420	Servicing Studies Development Prog 2010	700	248	452
905423	Riverside S Community Sanitary	898	-	898
905820	New Vehicles - Wastewater	360	262	98
905993	Richmond Village Stormwater Retrofit	185	-	185
		148,605	120,220	28,386
Regulatory				
902136	Municipal Drains Improvements	442	229	213
902142	ROPEC - Effluent Declorination	8,180	5,926	2,254
902960	Municipal Drains Improvements & Construct	1,970	1,800	170
903665	Protective Plumbing Program	3,015	3,805	(790)

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Project Description	Authority	Total Expenditures & Commitments	Total Unspent Authority
904176 Sewer Rate Review	350	317	33
905816 Municipal Drains Improvements & Construct	1,830	-	1,830
905819 Protective Plumbing Program	2,242	2,277	(35)
905823 Quality Management System	270	128	142
906191 Protective Plumbing	1,750	936	814
906193 Quality Management System	350	-	350
906194 Municipal Drain Improvements	330	129	201
	20,729	15,547	5,182
Strategic Initiatives			
900224 River Ridge Trunk Sewer	2,947	2,870	77
900256 Infrastructure Master Planning	1,857	1,640	216
900259 Sewer Use Program: Short Term Initiative	733	684	49
900421 ROPEC Biosolids Mgmt Plan Initiatives	1,570	808	762
900972 ROPEC Biosolids Processing	795	405	390
900985 Stormwater Master Plan	1,200	1,165	35
902042 Watershed/Subwatershed Planning	1,843	1,739	104
902569 Page Rd Local Improve. Sanitary Sewer	525	415	110
904915 Trim Road Storm Sewer	500	1	499
905683 Watershed/Subwatershed Planning	600	155	445
905745 Compassionate Grant Program	200	49	151
905787 ORAP-Water Environment Strategy	500	98	402
905788 ORAP-Public Education & Outreach	150	-	150
905792 Manotick Special Des Area SW Monitoring	74	-	74
	13,493	10,027	3,467
Wastewater Services Total	477,966	353,220	124,746
Grand Total	921,139	662,083	259,056

