



*Water System 2013 - 2022  
Capital Forecast Summary*

*Appendix I*



**CITY OF HAMILTON**  
**2013-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY**  
**(000'S)**

		Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
					Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
<b>2013</b>	<b>Sustainable Asset Management Strategy (SAM)</b>									
	Rehabilitation, Replacement & Upgrade Projects	21,070	-	21,070	-	-	620	20,450	20,450	
	Projects Coordinated with Roads Program	20,470	-	20,470	-	-	4,100	16,370	13,910	2,460
	S.E.R.G. Projects	-	-	-	-	-	-	-	-	
	Treatment Plant/Outstations Projects	8,150	-	8,150	-	-	1,200	6,950	1,660	5,290
	Treatment Plant/Outstations Projects-WQI	1,070	-	1,070	-	-	-	1,070	30	1,040
	<b>Sub-Total</b>	<b>50,760</b>	<b>-</b>	<b>50,760</b>	<b>-</b>	<b>-</b>	<b>5,920</b>	<b>44,840</b>	<b>36,050</b>	<b>8,790</b>
	<b>Wastewater Investments Needs Strategies (WINS)</b>									
	Treatment Plant/Outstations Projects	-	-	-	-	-	-	-	-	-
	<b>Sub-Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Master Plan</b>									
	Horizontal Assets	15,700	-	15,700	11,337	4,363	-	-	-	-
	Vertical Assets	9,720	-	9,720	4,401	2,149	-	3,170	30	3,140
	<b>Sub-Total</b>	<b>25,420</b>	<b>-</b>	<b>25,420</b>	<b>15,738</b>	<b>6,512</b>	<b>-</b>	<b>3,170</b>	<b>30</b>	<b>3,140</b>
	<b>Development Program</b>									
	Development\Extension Projects	5,820	100	5,720	3,012	1,258	600	850	850	-
	<b>Sub-Total</b>	<b>5,820</b>	<b>100</b>	<b>5,720</b>	<b>3,012</b>	<b>1,258</b>	<b>600</b>	<b>850</b>	<b>850</b>	<b>-</b>
	<b>Total</b>	<b>82,000</b>	<b>100</b>	<b>81,900</b>	<b>18,750</b>	<b>7,770</b>	<b>6,520</b>	<b>48,860</b>	<b>36,930</b>	<b>11,930</b>
<b>2014</b>	<b>Sustainable Asset Management Strategy (SAM)</b>									
	Rehabilitation, Replacement & Upgrade Projects	13,760	-	13,760	-	-	-	13,760	8,210	5,550
	Projects Coordinated with Roads Program	11,840	-	11,840	-	-	-	11,840	11,840	
	S.E.R.G. Projects	-	-	-	-	-	-	-	-	
	Treatment Plant/Outstations Projects	7,230	-	7,230	-	-	-	7,230	7,230	
	Treatment Plant/Outstations Projects-WQI	110	-	110	-	-	-	110	110	
	<b>Sub-Total</b>	<b>32,940</b>	<b>-</b>	<b>32,940</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>32,940</b>	<b>27,390</b>	<b>5,550</b>
	<b>Master Plan</b>									
	Horizontal Assets	5,550	-	5,550	4,007	1,543	-	-	-	
	Vertical Assets	5,400	-	5,400	1,863	837	-	2,700	2,700	
	<b>Sub-Total</b>	<b>10,950</b>	<b>-</b>	<b>10,950</b>	<b>5,870</b>	<b>2,380</b>	<b>-</b>	<b>2,700</b>	<b>2,700</b>	<b>-</b>
	<b>Development Program</b>									
	Development\Extension Projects	3,440	-	3,440	1,601	719	-	1,120	1,120	
	<b>Sub-Total</b>	<b>3,440</b>	<b>-</b>	<b>3,440</b>	<b>1,601</b>	<b>719</b>	<b>-</b>	<b>1,120</b>	<b>1,120</b>	<b>-</b>
	<b>Total</b>	<b>47,330</b>	<b>-</b>	<b>47,330</b>	<b>7,471</b>	<b>3,099</b>	<b>-</b>	<b>36,760</b>	<b>31,210</b>	<b>5,550</b>

**CITY OF HAMILTON**  
**2013-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY**  
**(000'S)**

		Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
					Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
<b>2015</b>	<b>Sustainable Asset Management Strategy (SAM)</b>									
	Rehabilitation, Replacement & Upgrade Projects	6,130		6,130			6,130	6,130		
	Projects Coordinated with Roads Program	9,990		9,990			9,990	9,990	-	
	S.E.R.G. Projects	-		-			-	-		
	Treatment Plant/Outstations Projects	8,980		8,980	1,725	775	5,000	1,480	1,480	
	Treatment Plant/Outstations Projects-WQI	70		70			70	70		
	<b>Sub-Total</b>	<b>25,170</b>	<b>-</b>	<b>25,170</b>	<b>1,725</b>	<b>775</b>	<b>5,000</b>	<b>17,670</b>	<b>17,670</b>	<b>-</b>
	<b>Master Plan</b>									
	Horizontal Assets	5,370		5,370	3,705	1,665	-	-	-	
	Vertical Assets	1,870		1,870	1,290	580	-	-	-	
	<b>Sub-Total</b>	<b>7,240</b>	<b>-</b>	<b>7,240</b>	<b>4,995</b>	<b>2,245</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Development Program</b>									
	Development\Extension Projects	2,500	-	2,500	1,587	713	200	200		
	<b>Sub-Total</b>	<b>2,500</b>	<b>-</b>	<b>2,500</b>	<b>1,587</b>	<b>713</b>	<b>-</b>	<b>200</b>	<b>200</b>	<b>-</b>
	<b>Total</b>	<b>34,910</b>	<b>-</b>	<b>34,910</b>	<b>8,307</b>	<b>3,733</b>	<b>5,000</b>	<b>17,870</b>	<b>17,870</b>	<b>-</b>
<b>2016</b>	<b>Sustainable Asset Management Strategy (SAM)</b>									
	Rehabilitation, Replacement & Upgrade Projects	6,850		6,850			6,850	6,850		
	Projects Coordinated with Roads Program	13,210		13,210			13,210	13,210		
	S.E.R.G. Projects	-		-			-	-		
	Treatment Plant/Outstations Projects	23,380		23,380	5,175	2,325	-	15,880	2,790	13,090
	Treatment Plant/Outstations Projects-WQI	1,280		1,280			1,280	1,280		
	<b>Sub-Total</b>	<b>44,720</b>	<b>-</b>	<b>44,720</b>	<b>5,175</b>	<b>2,325</b>	<b>-</b>	<b>37,220</b>	<b>24,130</b>	<b>13,090</b>
	<b>Master Plan</b>									
	Horizontal Assets	12,900	544	12,356	8,698	3,658	-	-	-	
	Vertical Assets	2,560		2,560	1,779	781	-	-	-	
	<b>Sub-Total</b>	<b>15,460</b>	<b>544</b>	<b>14,916</b>	<b>10,477</b>	<b>4,439</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Development Program</b>									
	Development\Extension Projects	-	-	-	-	-	-	-	-	
	<b>Sub-Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Total</b>	<b>60,180</b>	<b>544</b>	<b>59,636</b>	<b>15,652</b>	<b>6,764</b>	<b>-</b>	<b>37,220</b>	<b>24,130</b>	<b>13,090</b>

**CITY OF HAMILTON**  
**2013-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY**  
**(000'S)**

	Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
				Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
<b>2017 Sustainable Asset Management Strategy (SAM)</b>									
Rehabilitation, Replacement & Upgrade Projects	11,750		11,750				11,750	11,750	
Projects Coordinated with Roads Program	4,910		4,910				4,910	4,910	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	9,010		9,010	1,725	775		6,510	2,960	3,550
Treatment Plant/Outstations Projects-WQI	1,080		1,080				1,080	1,080	
<b>Sub-Total</b>	<b>26,750</b>	<b>-</b>	<b>26,750</b>	<b>1,725</b>	<b>775</b>	<b>-</b>	<b>24,250</b>	<b>20,700</b>	<b>3,550</b>
<b>Master Plan</b>									
Horizontal Assets	12,720	4,070	8,650	5,969	2,681		-	-	
Vertical Assets	-		-	-	-		-	-	
<b>Sub-Total</b>	<b>12,720</b>	<b>4,070</b>	<b>8,650</b>	<b>5,969</b>	<b>2,681</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Development Program</b>									
Development\Extension Projects	1,150	-	1,150	448	202		500	500	
<b>Sub-Total</b>	<b>1,150</b>	<b>-</b>	<b>1,150</b>	<b>448</b>	<b>202</b>	<b>-</b>	<b>500</b>	<b>500</b>	<b>-</b>
<b>Total</b>	<b>40,620</b>	<b>4,070</b>	<b>36,550</b>	<b>8,142</b>	<b>3,658</b>	<b>-</b>	<b>24,750</b>	<b>21,200</b>	<b>3,550</b>
<b>2018 Sustainable Asset Management Strategy (SAM)</b>									
Rehabilitation, Replacement & Upgrade Projects	5,500		5,500				5,500	5,500	
Projects Coordinated with Roads Program	4,100		4,100				4,100	4,100	
S.E.R.G. Projects	800		800			-	800	800	
Treatment Plant/Outstations Projects	3,630		3,630				3,630	3,630	
Treatment Plant/Outstations Projects-WQI	1,070		1,070				1,070	1,070	
<b>Sub-Total</b>	<b>15,100</b>	<b>-</b>	<b>15,100</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,100</b>	<b>15,100</b>	<b>-</b>
<b>Master Plan</b>									
Horizontal Assets	240		240	166	74		-	-	
Vertical Assets	3,400		3,400	2,298	1,032		70	70	
<b>Sub-Total</b>	<b>3,640</b>	<b>-</b>	<b>3,640</b>	<b>2,464</b>	<b>1,106</b>	<b>-</b>	<b>70</b>	<b>70</b>	<b>-</b>
<b>Development Program</b>									
Development\Extension Projects	370	-	370	255	115		-	-	
<b>Sub-Total</b>	<b>370</b>	<b>-</b>	<b>370</b>	<b>255</b>	<b>115</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>19,110</b>	<b>-</b>	<b>19,110</b>	<b>2,719</b>	<b>1,221</b>	<b>-</b>	<b>15,170</b>	<b>15,170</b>	<b>-</b>

**CITY OF HAMILTON**  
**2013-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY**  
**(000'S)**

							Financing Source		
Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Contribution From Operating	External Borrowings (Debentures)	
			Residential	Non Residential					
<b>2019 Sustainable Asset Management Strategy (SAM)</b>									
Rehabilitation, Replacement & Upgrade Projects	5,750	5,750				5,750	5,750		
Projects Coordinated with Roads Program	3,800	3,800				3,800	3,800		
S.E.R.G. Projects	-	-			-	-	-		
Treatment Plant/Outstations Projects	3,530	3,530				3,530	3,530		
Treatment Plant/Outstations Projects-WQI	1,280	1,280				1,280	1,280		
<b>Sub-Total</b>	<b>14,360</b>	<b>14,360</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14,360</b>	<b>14,360</b>	<b>-</b>	
<b>Master Plan</b>									
Horizontal Assets	1,420	1,420	980	440		-	-		
Vertical Assets	12,490	12,490	8,197	3,683		610	610		
<b>Sub-Total</b>	<b>13,910</b>	<b>13,910</b>	<b>9,177</b>	<b>4,123</b>	<b>-</b>	<b>610</b>	<b>610</b>	<b>-</b>	
<b>Development Program</b>									
Development\Extension Projects	400	400	138	62		200	200		
<b>Sub-Total</b>	<b>400</b>	<b>400</b>	<b>138</b>	<b>62</b>	<b>-</b>	<b>200</b>	<b>200</b>	<b>-</b>	
<b>Total</b>	<b>28,670</b>	<b>28,670</b>	<b>9,315</b>	<b>4,185</b>	<b>-</b>	<b>15,170</b>	<b>15,170</b>	<b>-</b>	
<b>2020 Sustainable Asset Management Strategy (SAM)</b>									
Rehabilitation, Replacement & Upgrade Projects	5,500	5,500				5,500	5,500		
Projects Coordinated with Roads Program	5,180	5,180				5,180	5,180		
S.E.R.G. Projects	-	-			-	-	-		
Treatment Plant/Outstations Projects	2,930	2,930				2,930	2,930		
Treatment Plant/Outstations Projects-WQI	1,090	1,090				1,090	1,090		
<b>Sub-Total</b>	<b>14,700</b>	<b>14,700</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14,700</b>	<b>14,700</b>	<b>-</b>	
<b>Master Plan</b>									
Horizontal Assets	-	-	-	-		-	-		
Vertical Assets	5,530	5,530	3,816	1,714		-	-		
<b>Sub-Total</b>	<b>5,530</b>	<b>5,530</b>	<b>3,816</b>	<b>1,714</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<b>Development Program</b>									
Development\Extension Projects	-	-	-	-		-	-		
<b>Sub-Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<b>Total</b>	<b>20,230</b>	<b>20,230</b>	<b>3,816</b>	<b>1,714</b>	<b>-</b>	<b>14,700</b>	<b>14,700</b>	<b>-</b>	

**CITY OF HAMILTON**  
**2013-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY**  
**(000'S)**

	Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
				Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
<b>2021 Sustainable Asset Management Strategy (SAM)</b>									
Rehabilitation, Replacement & Upgrade Projects	5,750		5,750				5,750	5,750	
Projects Coordinated with Roads Program	5,050		5,050				5,050	5,050	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	3,560		3,560				3,560	3,560	
Treatment Plant/Outstations Projects-WQI	1,050		1,050				1,050	1,050	
<b>Sub-Total</b>	<b>15,410</b>	<b>-</b>	<b>15,410</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,410</b>	<b>15,410</b>	<b>-</b>
<b>Master Plan</b>									
Horizontal Assets	-		-	-	-		-	-	
Vertical Assets	6,800		6,800	3,588	1,612		1,600	1,600	
<b>Sub-Total</b>	<b>6,800</b>	<b>-</b>	<b>6,800</b>	<b>3,588</b>	<b>1,612</b>	<b>-</b>	<b>1,600</b>	<b>1,600</b>	<b>-</b>
<b>Development Program</b>									
Development\Extension Projects	400	-	400	138	62		200	200	
<b>Sub-Total</b>	<b>400</b>	<b>-</b>	<b>400</b>	<b>138</b>	<b>62</b>	<b>-</b>	<b>200</b>	<b>200</b>	<b>-</b>
<b>Total</b>	<b>22,610</b>	<b>-</b>	<b>22,610</b>	<b>3,726</b>	<b>1,674</b>	<b>-</b>	<b>17,210</b>	<b>17,210</b>	<b>-</b>
<b>2022 Sustainable Asset Management Strategy (SAM)</b>									
Rehabilitation, Replacement & Upgrade Projects	5,500		5,500				5,500	5,500	
Projects Coordinated with Roads Program	5,360		5,360				5,360	5,360	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	3,310		3,310				3,310	3,310	
Treatment Plant/Outstations Projects-WQI	1,050		1,050				1,050	1,050	
<b>Sub-Total</b>	<b>15,220</b>	<b>-</b>	<b>15,220</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,220</b>	<b>15,220</b>	<b>-</b>
<b>Master Plan</b>									
Horizontal Assets	-		-	-	-		-	-	
Vertical Assets	5,400		5,400	3,726	1,674		-	-	
<b>Sub-Total</b>	<b>5,400</b>	<b>-</b>	<b>5,400</b>	<b>3,726</b>	<b>1,674</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Development Program</b>									
Development\Extension Projects	-	-	-	-	-		-	-	
<b>Sub-Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>20,620</b>	<b>-</b>	<b>20,620</b>	<b>3,726</b>	<b>1,674</b>	<b>-</b>	<b>15,220</b>	<b>15,220</b>	<b>-</b>

**CITY OF HAMILTON**  
**2013-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY**  
**(000'S)**

		Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
					Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
<b>Total</b>	<b>Sustainable Asset Management Strategy (SAM)</b>									
	Rehabilitation, Replacement & Upgrade Projects	87,560	-	87,560	-	-	620	86,940	81,390	5,550
	Projects Coordinated with Roads Program	83,910	-	83,910	-	-	4,100	79,810	77,350	2,460
	S.E.R.G. Projects	800	-	800	-	-	-	800	800	-
	Treatment Plant/Outstations Projects	73,710	-	73,710	8,625	3,875	6,200	55,010	33,080	21,930
	Treatment Plant/Outstations Projects-WQI	9,150	-	9,150	-	-	-	9,150	8,110	1,040
	<b>Sub-Total</b>	<b>255,130</b>	<b>-</b>	<b>255,130</b>	<b>8,625</b>	<b>3,875</b>	<b>10,920</b>	<b>231,710</b>	<b>200,730</b>	<b>30,980</b>
	<b>Wastewater Investments Needs Strategies (WINS)</b>									
	Treatment Plant/Outstations Projects	-	-	-	-	-	-	-	-	-
	<b>Sub-Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Master Plan</b>									
	Horizontal Assets	53,900	4,614	49,286	34,862	14,424	-	-	-	-
	Vertical Assets	53,170	-	53,170	30,958	14,062	-	8,150	5,010	3,140
	<b>Sub-Total</b>	<b>107,070</b>	<b>4,614</b>	<b>102,456</b>	<b>65,820</b>	<b>28,486</b>	<b>-</b>	<b>8,150</b>	<b>5,010</b>	<b>3,140</b>
	<b>Development Program</b>									
	Development\Extension Projects	14,080	100	13,980	7,179	3,131	600	3,070	3,070	-
	<b>Sub-Total</b>	<b>14,080</b>	<b>100</b>	<b>13,980</b>	<b>7,179</b>	<b>3,131</b>	<b>600</b>	<b>3,070</b>	<b>3,070</b>	<b>-</b>
	<b>Total</b>	<b>376,280</b>	<b>4,714</b>	<b>371,566</b>	<b>81,624</b>	<b>35,492</b>	<b>11,520</b>	<b>242,930</b>	<b>208,810</b>	<b>34,120</b>