

Chatham's Wastewater Plan

Fiscal Update

February 23, 2010

CCT Costs

• Phase 1	\$240M
• Phase 2	\$100M
• Interest	\$200M
Total	<hr/> \$540M

Actual Projected Costs

• Phase 1	\$186M
• Phase 2	(Optional)
• Interest	\$ 80M
	<hr/>
Total	\$266M

CCT

Actual

• Phase 1	\$240M	\$186M
• Phase 2	\$100M	Optional
• Interest	<u>\$200M</u>	<u>\$ 80M</u>
Total	\$540M	\$266M

Phase 1 Construction

\$210M

Initial Funding \$ 60M Facility & Collection

Future \$150M Collection

Appropriations

—————
\$210M

Phase 1 Construction

Initial Funding Estimates

\$40M

Facility Upgrade

\$20M

Collection System

\$60M

Total

Actual Bids

\$40M

Facility Upgrade

\$12M

Collection System

\$52M

Total

Potential Funding Mechanism

- Stimulus Funding
- SRF Funding
- USDA Grants

Initial Funding – Phase 1

Bid Price		\$52M
Grant		\$18.5M
		<hr/>
	Total	\$33.5M
Total Phase 1		
	Estimate	\$210M
	Actual	\$186M

Phase 1 Construction Interest

2% SRF

0% SRF

\$80M Interest (\$266M Total)

\$62M Interest (\$248M Total)

2007 Costs vs. Future Escalation

Phase 1 Costs

\$ 60M

\$150M

\$210M

Facility, Initial Collection

Balance of Collection

Total

	<u>Estimate</u>	<u>Actual</u>
Facility	\$40M	\$40M
Collection	\$20M	\$12M
Total	\$60M	\$52M

Collection System Costs

Estimate (2007)

\$ 20M

\$150M

Actual (2010)

\$ 12M

\$ 90M

2007 vs. Escalation

\$150M

\$ 90M (Updated to 2010)

\$ 90M Escalated by 3%/Yr. = \$157M

CCT

Actual

• Phase 1	\$240M	\$186M
• Phase 2	\$100M	-----
• Interest	\$200M	\$ 80M
Total	<hr/> \$540M	<hr/> \$266M

Expensive, But Affordable

$\$300\text{M} / 5,000 \text{ Parcels} = \$60,000 \text{ per}$

$\text{Paid over 50 YRS.} = \$1,200/\text{YR.}$

$\text{I/A Maintenance over 50 YRS} = \$75,000$

Tax Rate Summary

(0% and 2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset
2007			
2008			
2009	0	40,000	0
2010	0	200,000	0.03
2011	\$36,667	238,500	0.04
2012	\$1,023,303	1,256,809	0.36
2013	\$1,023,303	1,227,850	0.35
2014	\$1,023,303	1,198,890	0.35
2015	\$1,576,635	1,265,921	0.45
2016	\$1,576,635	1,238,919	0.44
2017	\$2,129,967	1,302,916	0.54
2018	\$2,129,967	1,272,881	0.53
2019	\$2,683,299	1,333,846	0.63
2020	\$2,683,299	1,300,777	0.63
2021	\$3,236,631	1,358,709	0.72
2022	\$3,236,631	1,322,608	0.72
2023	\$3,789,963	1,657,506	0.86
2024	\$3,789,963	1,609,039	0.85
2025	\$4,343,295	1,931,571	0.99
2026	\$4,343,295	1,870,737	0.98
2027	\$4,896,627	2,180,904	1.11
2028	\$4,896,627	2,107,704	1.10
2029	\$5,449,959	2,405,504	1.23
2030	\$5,449,959	2,319,938	1.22
2031	\$6,003,291	2,605,372	1.35
2032	\$6,003,291	2,307,440	1.31
2033	\$6,003,291	2,209,509	1.29
2034	\$6,003,291	2,111,577	1.28

Tax Rate Summary

(0% and 2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset
2035	\$6,003,291	2,013,646	1.26
2036	\$6,003,291	1,915,715	1.24
2037	\$6,003,291	1,817,784	1.23
2038	\$6,003,291	1,719,853	1.21
2039	\$6,003,291	1,621,922	1.20
2040	\$6,003,291	1,523,991	1.18
2041	\$5,966,624	1,426,079	1.16
2042	\$5,562,488	1,329,439	1.08
2043	\$5,562,488	1,241,537	1.07
2044	\$5,562,488	1,153,635	1.06
2045	\$5,009,156	1,065,724	0.95
2046	\$5,009,156	980,855	0.94
2047	\$4,455,824	895,976	0.84
2048	\$4,455,824	814,140	0.83
2049	\$3,902,492	732,295	0.73
2050	\$3,902,492	653,492	0.72
2051	\$3,349,160	574,680	0.62
2052	\$2,766,660	309,242	0.48
2053	\$2,213,328	247,394	0.39
2054	\$2,213,328	197,930	0.38
2055	\$1,659,996	148,447	0.28
2056	\$1,659,996	111,349	0.28
2057	\$1,106,664	74,233	0.19
2058	\$1,106,664	49,501	0.18
2059	\$553,332	24,750	0.09
2060	\$553,332	12,384	0.09

Sub-total 185,923,720 62,531,424

Total 248,455,144

Tax Rate Summary

(2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset
2007			
2008			
2009	0.00	40,000	0.01
2010	0.00	200,000	0.03
2011	36,667	238,500	0.04
2012	1,023,303	1,256,809	0.36
2013	1,023,303	1,227,850	0.35
2014	1,023,303	1,198,890	0.35
2015	1,576,635	1,545,921	0.49
2016	1,576,635	1,509,585	0.48
2017	2,129,967	1,844,250	0.62
2018	2,129,967	1,795,548	0.62
2019	2,683,299	2,117,846	0.75
2020	2,683,299	2,056,778	0.74
2021	3,236,631	2,366,710	0.88
2022	3,236,631	2,293,277	0.87
2023	3,789,963	2,590,843	1.00
2024	3,789,963	2,505,043	0.99
2025	4,343,295	2,790,243	1.12
2026	4,343,295	2,692,077	1.11
2027	4,896,627	2,964,912	1.24
2028	4,896,627	2,854,380	1.22
2029	5,449,959	3,114,848	1.35
2030	5,449,959	2,991,950	1.33
2031	6,003,291	3,240,053	1.45
2032	6,003,291	2,904,789	1.40
2033	6,003,291	2,769,525	1.38
2034	6,003,291	2,634,262	1.36

Tax Rate Summary

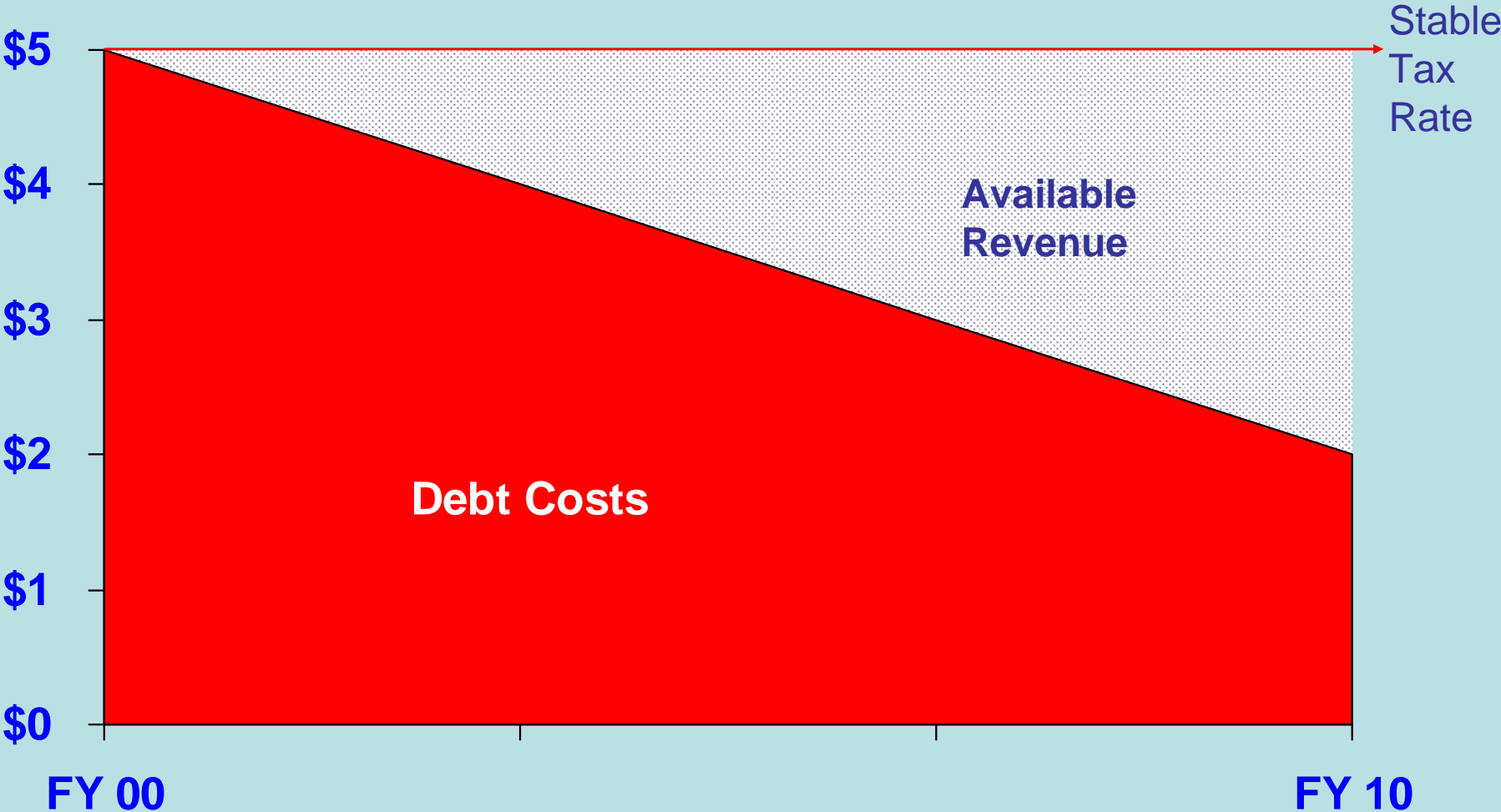
(2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset
2035	6,003,291	2,498,999	1.34
2036	6,003,291	2,363,736	1.31
2037	6,003,291	2,228,473	1.29
2038	6,003,291	2,093,210	1.27
2039	6,003,291	1,957,947	1.25
2040	6,003,291	1,822,684	1.23
2041	5,966,624	1,687,439	1.20
2042	5,562,488	1,553,467	1.12
2043	5,562,488	1,428,233	1.10
2044	5,562,488	1,302,999	1.08
2045	5,009,156	1,177,747	0.97
2046	5,009,156	1,064,879	0.95
2047	4,455,824	951,992	0.85
2048	4,455,824	851,490	0.83
2049	3,902,492	750,970	0.73
2050	3,902,492	662,834	0.72
2051	3,349,160	574,680	0.62
2052	2,766,660	309,242	0.48
2053	2,213,328	247,394	0.39
2054	2,213,328	197,930	0.38
2055	1,659,996	148,447	0.28
2056	1,659,996	111,349	0.28
2057	1,106,664	74,233	0.19
2058	1,106,664	49,501	0.18
2059	553,332	24,750	0.09
2060	553,332	12,384	0.09
Sub-total	185,923,720	79,891,897	
Total	265,815,617		

Capital Facility Plan

- Affordability

Municipal Debt Declines



OVER/UNDER

	Current Debt	PD/Annex 16.9m	Fire Station 8m	Tax rate impact	
	4,700,000				
2011	3,467,020			1,232,980	-0.19
2012	3,261,618			1,438,382	-0.23
2013	3,319,374	1436500		(735,874)	0.12
2014	3,199,677	1406925	680000	(572,602)	0.09
2015	2,759,398	1377350	666000	(88,748)	0.01
2016	2,567,944	1347775	652000	146,281	-0.02
2017	2,462,994	1318200	638000	294,806	-0.05
2018	2,089,184	1288625	624000	712,191	-0.11
2019	1,477,858	1259050	610000	1,367,092	-0.21
2020	814,316	1229475	596000	2,074,209	-0.33
2021	789,337	1199900	582000	2,142,763	-0.34
2022	748,187	1170325	568000	2,227,488	-0.35
2023	723,187	1140750	554000	2,296,063	-0.36
2024	698,187	1111175	540000	2,364,638	-0.37
2025	629,087	1081600	526000	2,477,313	-0.39
2026	498,087	1052025	512000	2,651,888	-0.42
2027	16,590	1022450	498000	3,176,960	-0.50
2028	15,956	992875	484000	3,221,169	-0.51
2029	15,318	963300	470000	3,265,382	-0.51
2030		933725	456000	3,324,275	-0.52
2031		904150	442000	3,367,850	-0.53
2032		874575	428000	3,411,425	-0.54
2033			414000	4,286,000	-0.67
2034				4,700,000	-0.74

Tax Rate Summary

(0% and 2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under
2007					
2008					
2009	0	40,000	0		
2010	0	200,000	0.03		
2011	\$36,667	238,500	0.04	1,232,980	-0.15
2012	\$1,023,303	1,256,809	0.36	1,438,382	0.13
2013	\$1,023,303	1,227,850	0.35	(735,874)	0.47
2014	\$1,023,303	1,198,890	0.35	(572,602)	0.44
2015	\$1,576,635	1,265,921	0.45	(88,748)	0.46
2016	\$1,576,635	1,238,919	0.44	146,281	0.42
2017	\$2,129,967	1,302,916	0.54	294,806	0.49
2018	\$2,129,967	1,272,881	0.53	712,191	0.42
2019	\$2,683,299	1,333,846	0.63	1,367,092	0.42
2020	\$2,683,299	1,300,777	0.63	2,074,209	0.30
2021	\$3,236,631	1,358,709	0.72	2,142,763	0.39
2022	\$3,236,631	1,322,608	0.72	2,227,488	0.37
2023	\$3,789,963	1,657,506	0.86	2,296,063	0.50
2024	\$3,789,963	1,609,039	0.85	2,364,638	0.48
2025	\$4,343,295	1,931,571	0.99	2,477,313	0.60
2026	\$4,343,295	1,870,737	0.98	2,651,888	0.56
2027	\$4,896,627	2,180,904	1.11	3,176,960	0.61
2028	\$4,896,627	2,107,704	1.10	3,221,169	0.59
2029	\$5,449,959	2,405,504	1.23	3,265,382	0.72
2030	\$5,449,959	2,319,938	1.22	3,324,275	0.70
2031	\$6,003,291	2,605,372	1.35	3,367,850	0.82
2032	\$6,003,291	2,307,440	1.31	3,411,425	0.77
2033	\$6,003,291	2,209,509	1.29	4,286,000	0.62
2034	\$6,003,291	2,111,577	1.28	4,700,000	0.54

Tax Rate Summary

(0% and 2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under
2035	\$6,003,291	2,013,646	1.26	4,700,000	0.52
2036	\$6,003,291	1,915,715	1.24	4,700,000	0.51
2037	\$6,003,291	1,817,784	1.23	4,700,000	0.49
2038	\$6,003,291	1,719,853	1.21	4,700,000	0.48
2039	\$6,003,291	1,621,922	1.20	4,700,000	0.46
2040	\$6,003,291	1,523,991	1.18	4,700,000	0.44
2041	\$5,966,624	1,426,079	1.16	4,700,000	0.42
2042	\$5,562,488	1,329,439	1.08	4,700,000	0.34
2043	\$5,562,488	1,241,537	1.07	4,700,000	0.33
2044	\$5,562,488	1,153,635	1.06	4,700,000	0.32
2045	\$5,009,156	1,065,724	0.95	4,700,000	0.22
2046	\$5,009,156	980,855	0.94	4,700,000	0.20
2047	\$4,455,824	895,976	0.84	4,700,000	0.10
2048	\$4,455,824	814,140	0.83	4,700,000	0.09
2049	\$3,902,492	732,295	0.73	4,700,000	-0.01
2050	\$3,902,492	653,492	0.72	4,700,000	-0.02
2051	\$3,349,160	574,680	0.62	4,700,000	-0.12
2052	\$2,766,660	309,242	0.48	4,700,000	-0.26
2053	\$2,213,328	247,394	0.39	4,700,000	-0.35
2054	\$2,213,328	197,930	0.38	4,700,000	-0.36
2055	\$1,659,996	148,447	0.28	4,700,000	-0.45
2056	\$1,659,996	111,349	0.28	4,700,000	-0.46
2057	\$1,106,664	74,233	0.19	4,700,000	-0.55
2058	\$1,106,664	49,501	0.18	4,700,000	-0.56
2059	\$553,332	24,750	0.09	4,700,000	-0.65
2060	\$553,332	12,384	0.09	4,700,000	-0.65

Sub-total 185,923,720 62,531,424

Total 248,455,144

Tax Rate Summary

(2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under
2007					
2008					
2009	0.00	40,000	0.01		
2010	0.00	200,000	0.03		
2011	36,667	238,500	0.04	1,232,980	-0.15
2012	1,023,303	1,256,809	0.36	1,438,382	0.13
2013	1,023,303	1,227,850	0.35	(735,874)	0.47
2014	1,023,303	1,198,890	0.35	(572,602)	0.44
2015	1,576,635	1,545,921	0.49	(88,748)	0.50
2016	1,576,635	1,509,585	0.48	146,281	0.46
2017	2,129,967	1,844,250	0.62	294,806	0.58
2018	2,129,967	1,795,548	0.62	712,191	0.50
2019	2,683,299	2,117,846	0.75	1,367,092	0.54
2020	2,683,299	2,056,778	0.74	2,074,209	0.42
2021	3,236,631	2,366,710	0.88	2,142,763	0.54
2022	3,236,631	2,293,277	0.87	2,227,488	0.52
2023	3,789,963	2,590,843	1.00	2,296,063	0.64
2024	3,789,963	2,505,043	0.99	2,364,638	0.62
2025	4,343,295	2,790,243	1.12	2,477,313	0.73
2026	4,343,295	2,692,077	1.11	2,651,888	0.69
2027	4,896,627	2,964,912	1.24	3,176,960	0.74
2028	4,896,627	2,854,380	1.22	3,221,169	0.71
2029	5,449,959	3,114,848	1.35	3,265,382	0.83
2030	5,449,959	2,991,950	1.33	3,324,275	0.80
2031	6,003,291	3,240,053	1.45	3,367,850	0.92
2032	6,003,291	2,904,789	1.40	3,411,425	0.86
2033	6,003,291	2,769,525	1.38	4,286,000	0.71
2034	6,003,291	2,634,262	1.36	4,700,000	0.62

Tax Rate Summary

(2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under
2035	6,003,291	2,498,999	1.34	4,700,000	0.60
2036	6,003,291	2,363,736	1.31	4,700,000	0.58
2037	6,003,291	2,228,473	1.29	4,700,000	0.55
2038	6,003,291	2,093,210	1.27	4,700,000	0.53
2039	6,003,291	1,957,947	1.25	4,700,000	0.51
2040	6,003,291	1,822,684	1.23	4,700,000	0.49
2041	5,966,624	1,687,439	1.20	4,700,000	0.46
2042	5,562,488	1,553,467	1.12	4,700,000	0.38
2043	5,562,488	1,428,233	1.10	4,700,000	0.36
2044	5,562,488	1,302,999	1.08	4,700,000	0.34
2045	5,009,156	1,177,747	0.97	4,700,000	0.23
2046	5,009,156	1,064,879	0.95	4,700,000	0.22
2047	4,455,824	951,992	0.85	4,700,000	0.11
2048	4,455,824	851,490	0.83	4,700,000	0.10
2049	3,902,492	750,970	0.73	4,700,000	-0.01
2050	3,902,492	662,834	0.72	4,700,000	-0.02
2051	3,349,160	574,680	0.62	4,700,000	-0.12
2052	2,766,660	309,242	0.48	4,700,000	-0.26
2053	2,213,328	247,394	0.39	4,700,000	-0.35
2054	2,213,328	197,930	0.38	4,700,000	-0.36
2055	1,659,996	148,447	0.28	4,700,000	-0.45
2056	1,659,996	111,349	0.28	4,700,000	-0.46
2057	1,106,664	74,233	0.19	4,700,000	-0.55
2058	1,106,664	49,501	0.18	4,700,000	-0.56
2059	553,332	24,750	0.09	4,700,000	-0.65
2060	553,332	12,384	0.09	4,700,000	-0.65

Sub-total 185,923,720 79,891,897

Total 265,815,617

Operating Revenue

Exceeds O & M, Available to
Offset Capital Costs

Fiscal Year	Projected O&M		Projected Sewer Revenue		Revenue Excess
2010	\$262,684		\$262,684		\$0
2011	\$262,684		\$262,684		\$0
2012	\$384,684		\$429,684		\$45,000
2013	\$384,684		\$563,684		\$179,000
2014	\$506,684		\$697,684		\$191,000
2015	\$506,684		\$831,684		\$325,000
2016	\$628,684		\$965,684		\$337,000
2017	\$628,684		\$1,099,684		\$471,000
2018	\$750,684		\$1,233,684		\$483,000
2019	\$750,684		\$1,367,684		\$617,000
2020	\$872,684		\$1,501,684		\$629,000
2021	\$872,684		\$1,635,684		\$763,000
2022	\$994,684		\$1,769,684		\$775,000
2023	\$994,684		\$1,903,684		\$909,000
2024	\$1,116,684		\$2,037,684		\$921,000
2025	\$1,116,684		\$2,171,684		\$1,055,000
2026	\$1,238,684		\$2,305,684		\$1,067,000
2027	\$1,238,684		\$2,439,684		\$1,201,000
2028	\$1,360,684		\$2,573,684		\$1,213,000
2029	\$1,360,684		\$2,707,684		\$1,347,000
2030	\$1,482,684		\$2,841,684		\$1,359,000
2031	\$1,482,684		\$2,975,684		\$1,493,000
2032	\$1,604,684		\$3,109,684		\$1,505,000

Tax Rate Summary

(0% and 2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under Offset	Sewer Revenue Excess	Tax Rate with Over/Under and Revenue
2007							
2008							
2009	0	40,000	0				
2010	0	200,000	0.03				
2011	\$36,667	238,500	0.04	1,232,980	-0.15		
2012	\$1,023,303	1,256,809	0.36	1,438,382	0.13	\$45,000	0.13
2013	\$1,023,303	1,227,850	0.35	(735,874)	0.47	\$179,000	0.44
2014	\$1,023,303	1,198,890	0.35	(572,602)	0.44	\$191,000	0.41
2015	\$1,576,635	1,265,921	0.45	(88,748)	0.46	\$325,000	0.41
2016	\$1,576,635	1,238,919	0.44	146,281	0.42	\$337,000	0.37
2017	\$2,129,967	1,302,916	0.54	294,806	0.49	\$471,000	0.42
2018	\$2,129,967	1,272,881	0.53	712,191	0.42	\$483,000	0.35
2019	\$2,683,299	1,333,846	0.63	1,367,092	0.42	\$617,000	0.32
2020	\$2,683,299	1,300,777	0.63	2,074,209	0.30	\$629,000	0.20
2021	\$3,236,631	1,358,709	0.72	2,142,763	0.39	\$763,000	0.27
2022	\$3,236,631	1,322,608	0.72	2,227,488	0.37	\$775,000	0.24
2023	\$3,789,963	1,657,506	0.86	2,296,063	0.50	\$909,000	0.35
2024	\$3,789,963	1,609,039	0.85	2,364,638	0.48	\$921,000	0.33
2025	\$4,343,295	1,931,571	0.99	2,477,313	0.60	\$1,055,000	0.43
2026	\$4,343,295	1,870,737	0.98	2,651,888	0.56	\$1,067,000	0.39
2027	\$4,896,627	2,180,904	1.11	3,176,960	0.61	\$1,201,000	0.42
2028	\$4,896,627	2,107,704	1.10	3,221,169	0.59	\$1,213,000	0.40
2029	\$5,449,959	2,405,504	1.23	3,265,382	0.72	\$1,347,000	0.51
2030	\$5,449,959	2,319,938	1.22	3,324,275	0.70	\$1,359,000	0.49
2031	\$6,003,291	2,605,372	1.35	3,367,850	0.82	\$1,493,000	0.59
2032	\$6,003,291	2,307,440	1.31	3,411,425	0.77	\$1,505,000	0.53
2033	\$6,003,291	2,209,509	1.29	4,286,000	0.62	\$1,505,000	0.38
2034	\$6,003,291	2,111,577	1.28	4,700,000	0.54	\$1,505,000	0.30

Tax Rate Summary

(0% and 2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under Offset	Sewer Revenue Excess	Tax Rate with Over/Under and Revenue
2035	\$6,003,291	2,013,646	1.26	4,700,000	0.52	\$1,505,000	0.28
2036	\$6,003,291	1,915,715	1.24	4,700,000	0.51	\$1,505,000	0.27
2037	\$6,003,291	1,817,784	1.23	4,700,000	0.49	\$1,505,000	0.25
2038	\$6,003,291	1,719,853	1.21	4,700,000	0.48	\$1,505,000	0.24
2039	\$6,003,291	1,621,922	1.20	4,700,000	0.46	\$1,505,000	0.22
2040	\$6,003,291	1,523,991	1.18	4,700,000	0.44	\$1,505,000	0.21
2041	\$5,966,624	1,426,079	1.16	4,700,000	0.42	\$1,505,000	0.19
2042	\$5,562,488	1,329,439	1.08	4,700,000	0.34	\$1,505,000	0.11
2043	\$5,562,488	1,241,537	1.07	4,700,000	0.33	\$1,505,000	0.09
2044	\$5,562,488	1,153,635	1.06	4,700,000	0.32	\$1,505,000	0.08
2045	\$5,009,156	1,065,724	0.95	4,700,000	0.22	\$1,505,000	-0.02
2046	\$5,009,156	980,855	0.94	4,700,000	0.20	\$1,505,000	-0.03
2047	\$4,455,824	895,976	0.84	4,700,000	0.10	\$1,505,000	-0.13
2048	\$4,455,824	814,140	0.83	4,700,000	0.09	\$1,505,000	-0.15
2049	\$3,902,492	732,295	0.73	4,700,000	-0.01	\$1,505,000	-0.25
2050	\$3,902,492	653,492	0.72	4,700,000	-0.02	\$1,505,000	-0.26
2051	\$3,349,160	574,680	0.62	4,700,000	-0.12	\$1,505,000	-0.36
2052	\$2,766,660	309,242	0.48	4,700,000	-0.26	\$1,505,000	-0.49
2053	\$2,213,328	247,394	0.39	4,700,000	-0.35	\$1,505,000	-0.59
2054	\$2,213,328	197,930	0.38	4,700,000	-0.36	\$1,505,000	-0.60
2055	\$1,659,996	148,447	0.28	4,700,000	-0.45	\$1,505,000	-0.69
2056	\$1,659,996	111,349	0.28	4,700,000	-0.46	\$1,505,000	-0.70
2057	\$1,106,664	74,233	0.19	4,700,000	-0.55	\$1,505,000	-0.79
2058	\$1,106,664	49,501	0.18	4,700,000	-0.56	\$1,505,000	-0.79
2059	\$553,332	24,750	0.09	4,700,000	-0.65	\$1,505,000	-0.88
2060	\$553,332	12,384	0.09	4,700,000	-0.65	\$1,505,000	-0.89

Sub-total 185,923,720 62,531,424

Total 248,455,144

Tax Rate Summary

(2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under Offset	Sewer Revenue Excess	Tax Rate with Over/Under Revenue Excess
2007							
2008							
2009	0.00	40,000	0.01				
2010	0.00	200,000	0.03				
2011	36,667	238,500	0.04	1,232,980	-0.15		
2012	1,023,303	1,256,809	0.36	1,438,382	0.13	\$45,000	0.13
2013	1,023,303	1,227,850	0.35	(735,874)	0.47	\$179,000	0.44
2014	1,023,303	1,198,890	0.35	(572,602)	0.44	\$191,000	0.41
2015	1,576,635	1,545,921	0.49	(88,748)	0.50	\$325,000	0.45
2016	1,576,635	1,509,585	0.48	146,281	0.46	\$337,000	0.41
2017	2,129,967	1,844,250	0.62	294,806	0.58	\$471,000	0.50
2018	2,129,967	1,795,548	0.62	712,191	0.50	\$483,000	0.43
2019	2,683,299	2,117,846	0.75	1,367,092	0.54	\$617,000	0.44
2020	2,683,299	2,056,778	0.74	2,074,209	0.42	\$629,000	0.32
2021	3,236,631	2,366,710	0.88	2,142,763	0.54	\$763,000	0.42
2022	3,236,631	2,293,277	0.87	2,227,488	0.52	\$775,000	0.40
2023	3,789,963	2,590,843	1.00	2,296,063	0.64	\$909,000	0.50
2024	3,789,963	2,505,043	0.99	2,364,638	0.62	\$921,000	0.47
2025	4,343,295	2,790,243	1.12	2,477,313	0.73	\$1,055,000	0.57
2026	4,343,295	2,692,077	1.11	2,651,888	0.69	\$1,067,000	0.52
2027	4,896,627	2,964,912	1.24	3,176,960	0.74	\$1,201,000	0.55
2028	4,896,627	2,854,380	1.22	3,221,169	0.71	\$1,213,000	0.52
2029	5,449,959	3,114,848	1.35	3,265,382	0.83	\$1,347,000	0.62
2030	5,449,959	2,991,950	1.33	3,324,275	0.80	\$1,359,000	0.59
2031	6,003,291	3,240,053	1.45	3,367,850	0.92	\$1,493,000	0.69
2032	6,003,291	2,904,789	1.40	3,411,425	0.86	\$1,505,000	0.63
2033	6,003,291	2,769,525	1.38	4,286,000	0.71	\$1,505,000	0.47
2034	6,003,291	2,634,262	1.36	4,700,000	0.62	\$1,505,000	0.38

Tax Rate Summary

(2% SRF Interest Rate for Collection System)

Fiscal Year	Total Principal	Total Interest	Tax Rate No Offset	Over/Under Offset	Tax Rate with Over/Under Offset	Sewer Revenue Excess	Tax Rate with Over/Under Revenue Excess
2035	6,003,291	2,498,999	1.34	4,700,000	0.60	\$1,505,000	0.36
2036	6,003,291	2,363,736	1.31	4,700,000	0.58	\$1,505,000	0.34
2037	6,003,291	2,228,473	1.29	4,700,000	0.55	\$1,505,000	0.32
2038	6,003,291	2,093,210	1.27	4,700,000	0.53	\$1,505,000	0.30
2039	6,003,291	1,957,947	1.25	4,700,000	0.51	\$1,505,000	0.28
2040	6,003,291	1,822,684	1.23	4,700,000	0.49	\$1,505,000	0.25
2041	5,966,624	1,687,439	1.20	4,700,000	0.46	\$1,505,000	0.23
2042	5,562,488	1,553,467	1.12	4,700,000	0.38	\$1,505,000	0.14
2043	5,562,488	1,428,233	1.10	4,700,000	0.36	\$1,505,000	0.12
2044	5,562,488	1,302,999	1.08	4,700,000	0.34	\$1,505,000	0.10
2045	5,009,156	1,177,747	0.97	4,700,000	0.23	\$1,505,000	0.00
2046	5,009,156	1,064,879	0.95	4,700,000	0.22	\$1,505,000	-0.02
2047	4,455,824	951,992	0.85	4,700,000	0.11	\$1,505,000	-0.13
2048	4,455,824	851,490	0.83	4,700,000	0.10	\$1,505,000	-0.14
2049	3,902,492	750,970	0.73	4,700,000	-0.01	\$1,505,000	-0.24
2050	3,902,492	662,834	0.72	4,700,000	-0.02	\$1,505,000	-0.26
2051	3,349,160	574,680	0.62	4,700,000	-0.12	\$1,505,000	-0.36
2052	2,766,660	309,242	0.48	4,700,000	-0.26	\$1,505,000	-0.49
2053	2,213,328	247,394	0.39	4,700,000	-0.35	\$1,505,000	-0.59
2054	2,213,328	197,930	0.38	4,700,000	-0.36	\$1,505,000	-0.60
2055	1,659,996	148,447	0.28	4,700,000	-0.45	\$1,505,000	-0.69
2056	1,659,996	111,349	0.28	4,700,000	-0.46	\$1,505,000	-0.70
2057	1,106,664	74,233	0.19	4,700,000	-0.55	\$1,505,000	-0.79
2058	1,106,664	49,501	0.18	4,700,000	-0.56	\$1,505,000	-0.79
2059	553,332	24,750	0.09	4,700,000	-0.65	\$1,505,000	-0.88
2060	553,332	12,384	0.09	4,700,000	-0.65	\$1,505,000	-0.89

Sub-total 185,923,720 79,891,897

Total 265,815,617

Tax Impact (0% SRF)

Median (\$534,900)

	<u>Full</u>	<u>w/Over/Under</u>	<u>w/O/U</u> & <u>Excess</u> <u>Revenue</u>
Total	\$20,879	\$6,491	\$1,611
Avg./ Yr.	\$409	\$127	\$32
Avg./ Mth.	\$34.12	\$10.61	\$2.63

Highest Year (2031)
\$315 (\$26.25/month)

Tax Impact (0% SRF)

Mean (\$861,900)

	<u>Full</u>	<u>w/Over/Under</u>	<u>w/O/U</u> & <u>Excess</u> <u>Revenue</u>
Total	\$33,643	\$10,460	\$2,596
Avg./ Yr.	\$660	\$205	\$51
Avg./ Mth.	\$54.97	\$17.09	\$4.24

Highest Year (2031)
\$507.58 (\$42.30/month)

Tax Impact (2% SRF)

Median (\$534,900)

	<u>Full</u>	<u>w/Over/Under</u>	<u>w/O/U</u> <u>& Excess</u> <u>Revenue</u>
Total	\$22,339	\$8,031	\$3,070
Avg./ Yr.	\$438	\$157	\$60
Avg./ Mth.	\$36.50	\$13.12	\$5.02

Highest Year (2031)
\$368.35 (\$30.70/month)

Tax Impact (2% SRF)

Mean (\$861,900)

	<u>Full</u>	<u>w/Over/Under</u>	<u>w/O/U</u> & <u>Excess</u> <u>Revenue</u>
Total	\$35,994	\$12,940	\$4,947
Avg./ Yr.	\$706	\$254	\$97
Avg./ Mth.	\$58.81	\$21.15	\$8.08

Highest Year (2031)
\$593.53 (\$49.46/month)

Conservative Assumptions

1. No Escalation of Revenue thru Fee Increases for 50 years
2. Use 2% SRF vs. 0% SRF
3. No New Grant Funding
4. No Possible 'Good Bids'
5. No 'New Growth'
6. High Short Term Interest Estimates

Other Costs

Connection Costs (Average Home)

\$3,000 – 10,000

Sewer User Costs (Average Home)

\$400/Yr.

\$33/Month

Q&A

Fred Jensen, Chairman CAC

Charles Bartlett, Chairman W&S Advisory

Andrew Gottlieb, Exec. Dir. Cape Cod Water
Protection Collaborative

Dr. Robert Duncanson, Director of H&E

William Redfield, Director of W&S

Jeff Colby, Director of DPW

Nate Weeks, Stearns & Wheeler

Bill Hinchey, Town Manager