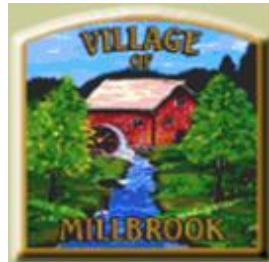


MILLBROOK, NY



TASK IV APPENDIX B: IMPACT OF EXPANSIONS AND IMPROVEMENTS ON COST TO THE AVERAGE HOUSEHOLD

PREPARED BY:



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May 25, 2011

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KEY ASSUMPTIONS

Average Annual Household Consumption (Gallons)	127,750
Status Quo Invoiced Water System Consumption (Gallons)*	64,495,500
Status Quo Invoiced Sewer System Consumption (Gallons)**	57,232,000
Nine Partners Expansion Water Consumption (Gallons)***	3,960,250
Nine Partners Expansion Sewer Consumption (Gallons)***	3,321,500
Bennett Expansion Water Consumption (Gallons)	10,950,000
Bennett Expansion Sewer Consumption (Gallons)	10,950,000
Rodrigo Expansion Water Consumption (Gallons)***	3,066,000
Rodrigo Expansion Sewer Consumption (Gallons)***	2,299,500
Horseshoe Expansion Water Consumption (Gallons)***	14,162,000
Horseshoe Expansion Sewer Consumption (Gallons)***	7,281,750
Infirmary Expansion Water Consumption (Gallons)	292,000
Infirmary Expansion Sewer Consumption (Gallons)	292,000
Average Assessed Household Value: Systemwide	\$400,000
Future Capital Expense Cost of Financing with BANs	1.5%
Bond Financing Terms	4%, 20 Years
Capital Cost of Nine Partners Expansion Area: Water	\$1,215,000
Capital Cost of Nine Partners Expansion Area: Sewer	\$790,000
Capital Cost of Bennett College Expansion Area: Water	\$0 Paid by Developer
Capital Cost of Bennett College Expansion Area: Sewer	\$1,080,000 Paid by Developer
Capital Cost of Rodrigo Expansion Area: Water	\$648,000
Capital Cost of Rodrigo Expansion Area: Sewer	\$675,250
Capital Cost of Horseshoe Expansion Area: Water	\$2,706,000
Capital Cost of Horseshoe Expansion Area: Sewer	\$2,353,400
Capital Cost of Infirmary Expansion Area: Water	\$0 Paid by County
Capital Cost of Infirmary Expansion Area: Sewer	\$135,000 Paid by County
Operating Cost CPI	2%
CPI of Assessed Household Value	0.5%

*Assumes that 95% of water processed at facility is Invoiced

**Assumes that 80% of wastewater processed at facility is Invoiced

***Assumes 80% of evaluated households would opt to hook-in to sewer/water system

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household

Rate Study: Summary

Prepared By: R.S. Lynch & Company

	2011-2012 \$/1,000 Gallons: In-Village	20 Year AVG \$/1,000 Gallons: In-Village	2011-2012 \$/1,000 Gallons: Outside Village	20 Year AVG \$/1,000 Gallons: Outside Village	2011-2012 Average Household Bill: In-Village	20 Year AVG Average Household Bill: In-Village	2011-2012 Average Household Bill: Outside Village	20 Year AVG Average Household Bill: Outside Village
Status Quo: Water	\$3.02	\$4.60	\$6.04	\$9.20	\$386	\$589	\$773	\$1,177
Status Quo: Sewer	\$6.43	\$8.34	\$6.43	\$8.34	\$863	\$1,163	\$863	\$1,163
Status Quo with Nine Partners Expansion: Water	\$4.15	\$5.66	\$8.29	\$11.33	\$531	\$725	\$1,061	\$1,450
Status Quo with Nine Partners Expansion: Sewer	\$6.85	\$8.50	\$6.85	\$8.50	\$950	\$1,232	\$950	\$1,232
Status Quo with Bennett College Expansion: Water	\$2.88	\$4.30	\$5.75	\$8.60	\$368	\$551	\$737	\$1,101
Status Quo with Bennett College Expansion: Sewer	\$6.13	\$7.90	\$6.13	\$7.90	\$822	\$1,099	\$822	\$1,099
Status Quo with Rodrigo Knolls Expansion: Water	\$3.47	\$4.94	\$6.94	\$9.88	\$444	\$633	\$889	\$1,265
Status Quo with Rodrigo Knolls Expansion: Sewer	\$6.81	\$8.50	\$6.81	\$8.50	\$940	\$1,225	\$940	\$1,225
Status Quo with Horseshoe Expansion: Water	\$4.43	\$5.62	\$8.86	\$11.25	\$567	\$720	\$1,135	\$1,440
Status Quo with Horseshoe Expansion: Sewer	\$7.68	\$8.89	\$7.68	\$8.89	\$1,118	\$1,371	\$1,118	\$1,371
Status Quo with Infirmary Expansion: Water	\$3.00	\$4.57	\$6.00	\$9.14	\$384	\$585	\$769	\$1,170
Status Quo with Infirmary Expansion: Sewer	\$6.42	\$8.33	\$6.42	\$8.33	\$861	\$1,160	\$861	\$1,160

Village Fiscal Year: June 1st-May 31st

VILLAGE OF MILLBROOK, NY
 Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Status Quo Water System
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses								
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Total Invoiced Water System Consumption (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Status Quo Capital Costs (Financed with BAN)	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990
BAN AND DEBT PRINCIPAL:	\$0	\$0	\$80,000	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990
System Operating Costs				2% Annual Escalation								
Routine Capital Improvements (Not Financed)	\$11,577	\$30,000	\$29,600	\$54,057	\$65,000	\$40,000	\$55,000	\$85,000	\$50,000	\$51,000	\$52,020	\$53,060
Liability Insurance	\$4,000	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888
Personal Services: Water Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466
Administration: System Operator	\$61,860	\$55,000	\$61,500	\$62,730	\$63,985	\$65,264	\$66,570	\$67,901	\$69,259	\$70,644	\$72,057	\$73,498
Chemicals/Testing	\$13,263	\$26,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853
Utilities/Supplies	\$25,642	\$35,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853
Contingency	\$0	\$50,185	\$44,300	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$1,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$48,000	\$46,388	\$44,712	\$42,968	\$41,155	\$39,269	\$37,308
TOTAL OPERATING AND INTEREST COSTS:	\$121,940	\$208,000	\$208,000	\$216,117	\$229,801	\$255,597	\$271,837	\$303,070	\$269,293	\$271,507	\$273,728	\$275,956
TOTAL ANNUAL EXPENSES:	\$121,940	\$208,000	\$288,000	\$216,117	\$229,801	\$295,895	\$313,747	\$346,656	\$314,623	\$318,650	\$322,757	\$326,946
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505
Consumption Charge/1,000 Gallons: In Village**	\$2.99	\$2.99	\$2.99	\$3.02	\$3.21	\$4.13	\$4.38	\$4.84	\$4.39	\$4.45	\$4.51	\$4.57
Consumption Charge/1,000 Gallons: Outside Village**	\$5.98	\$5.98	\$5.98	\$6.04	\$6.42	\$8.27	\$8.77	\$9.68	\$8.79	\$8.90	\$9.02	\$9.13
Consumption Charge per Average Household: In Village	\$382.72	\$382.72	\$382.72	\$386.41	\$410.87	\$529.05	\$560.97	\$619.81	\$562.53	\$569.73	\$577.08	\$584.57
Consumption Charge per Average Household: Outside Village	\$765.44	\$765.44	\$765.44	\$772.82	\$821.75	\$1,058.10	\$1,121.93	\$1,239.61	\$1,125.07	\$1,139.47	\$1,154.15	\$1,169.13
Consumption Billing Revenues: In Village	\$171,629	\$171,629	\$171,629	\$173,283	\$184,255	\$237,249	\$251,563	\$277,949	\$252,265	\$255,494	\$258,787	\$262,146
Consumption Billing Revenues: Outside Village	\$42,425	\$42,425	\$42,425	\$42,834	\$45,546	\$58,646	\$62,184	\$68,707	\$62,358	\$63,156	\$63,970	\$64,800
Other Revenues	-\$92,114	-\$6,054	\$73,946	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$121,940	\$208,000	\$288,000	\$216,117	\$229,801	\$295,895	\$313,747	\$346,656	\$314,623	\$318,650	\$322,757	\$326,946

*Assumes 11% of Consumed Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
 Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Status Quo Water System
 Prepared By: R.S. Lynch & Company

<i>Village Fiscal Year: June 1st-May 31st</i>	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced Water System Consumption (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$53,030	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	\$78,497
BAN AND DEBT PRINCIPAL:	\$53,030	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	\$78,497
System Operating Costs												
Routine Capital Improvements (Not Financed)	\$54,122	\$55,204	\$56,308	\$57,434	\$58,583	\$59,755	\$60,950	\$62,169	\$63,412	\$64,680	\$65,974	\$65,974
Liability Insurance	\$8,045	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Water Clerk	\$7,171	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$475	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$74,968	\$76,468	\$77,997	\$79,557	\$81,148	\$82,771	\$84,426	\$86,115	\$87,837	\$89,594	\$91,386	\$91,386
Chemicals/Testing	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Utilities/Supplies	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Contingency	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$35,269	\$33,147	\$30,941	\$28,647	\$26,261	\$23,780	\$21,199	\$18,515	\$15,723	\$12,821	\$9,801	\$9,801
TOTAL OPERATING AND INTEREST COSTS:	\$278,189	\$280,427	\$282,666	\$284,906	\$287,145	\$289,382	\$291,613	\$293,837	\$296,052	\$298,256	\$300,446	\$300,446
TOTAL ANNUAL EXPENSES:	\$331,219	\$335,577	\$340,023	\$344,557	\$349,183	\$353,900	\$358,712	\$363,621	\$368,627	\$373,734	\$378,942	\$378,942
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505
Consumption Charge/1,000 Gallons: In Village**	\$4.63	\$4.69	\$4.75	\$4.81	\$4.88	\$4.94	\$5.01	\$5.08	\$5.15	\$5.22	\$5.29	\$4.60
Consumption Charge/1,000 Gallons: Outside Village**	\$9.25	\$9.37	\$9.50	\$9.63	\$9.76	\$9.89	\$10.02	\$10.16	\$10.30	\$10.44	\$10.59	\$9.20
Consumption Charge per Average Household: In Village	\$592.21	\$600.00	\$607.95	\$616.05	\$624.32	\$632.76	\$641.36	\$650.14	\$659.09	\$668.22	\$677.53	\$588.53
Consumption Charge per Average Household: Outside Village	\$1,184.41	\$1,200.00	\$1,215.89	\$1,232.11	\$1,248.65	\$1,265.52	\$1,282.73	\$1,300.28	\$1,318.18	\$1,336.44	\$1,355.07	\$1,177.06
Consumption Billing Revenues: In Village	\$265,572	\$269,066	\$272,631	\$276,267	\$279,975	\$283,758	\$287,616	\$291,552	\$295,566	\$299,660	\$303,837	\$303,837
Consumption Billing Revenues: Outside Village	\$65,647	\$66,511	\$67,392	\$68,291	\$69,207	\$70,142	\$71,096	\$72,069	\$73,061	\$74,073	\$75,106	\$75,106
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$331,219	\$335,577	\$340,023	\$344,557	\$349,183	\$353,900	\$358,712	\$363,621	\$368,627	\$373,734	\$378,942	\$378,942

*Assumes 11% of Consumed Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Status Quo Sewer System
Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses									
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Total Invoiced Sewer System Consumption (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Status Quo Capital Costs (Financed with BAN)	\$120,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$127,872	\$90,032	\$280,032	\$500,000	\$470,000	\$400,000	\$350,000	\$300,000	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$90,032	\$30,032	\$250,000	\$470,000	\$400,000	\$350,000	\$300,000	\$250,000	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$91,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072
System Operating Costs					2% Annual Escalation								
Routine Capital Improvements (Not Financed)	\$22,533	\$33,000	\$35,000	\$35,700	\$36,414	\$37,412	\$37,885	\$37,885	\$38,643	\$39,416	\$40,204	\$41,008	\$41,828
Liability Insurance	\$0	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	\$8,045
Personal Services: Sewer Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	\$7,171
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	\$475
Administration: System Operator	\$108,350	\$106,000	\$108,350	\$110,517	\$112,727	\$114,982	\$117,282	\$119,627	\$122,020	\$124,460	\$126,949	\$129,488	\$132,078
Chemicals/Utilities	\$122,908	\$179,850	\$182,500	\$186,150	\$189,873	\$193,670	\$197,544	\$201,495	\$205,525	\$209,635	\$213,828	\$218,104	\$222,466
Contingency	\$0	\$11,335	\$13,370	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$1,500	\$900	\$7,500	\$7,050	\$6,000	\$5,250	\$4,500	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$48,321	\$46,575	\$44,759	\$42,870	\$40,906
TOTAL OPERATING AND INTEREST COSTS:	\$259,389	\$343,500	\$350,920	\$367,997	\$374,457	\$380,725	\$386,894	\$442,719	\$444,004	\$449,872	\$455,822	\$461,854	\$467,969
TOTAL ANNUAL EXPENSES:	\$297,229	\$403,500	\$380,952	\$397,997	\$444,457	\$430,725	\$436,894	\$534,696	\$487,661	\$495,274	\$503,040	\$510,961	\$519,041
Invoiced Sewer System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400
Invoiced Sewer System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600
Consumption Charge/1,000 Gallons: In Village	\$6.18	\$6.18	\$6.18	\$6.43	\$6.54	\$6.65	\$6.76	\$7.74	\$7.76	\$7.86	\$7.96	\$8.07	\$8.18
Consumption Charge/1,000 Gallons: Outside Village	\$6.18	\$6.18	\$6.18	\$6.43	\$6.54	\$6.65	\$6.76	\$7.74	\$7.76	\$7.86	\$7.96	\$8.07	\$8.18
Consumption Charge per Average Household: In Village	\$791.04	\$791.04	\$791.04	\$823.03	\$837.48	\$851.49	\$865.29	\$990.15	\$993.02	\$1,006.14	\$1,019.45	\$1,032.94	\$1,046.62
Consumption Charge per Average Household: Outside Village	\$791.04	\$791.04	\$791.04	\$823.03	\$837.48	\$851.49	\$865.29	\$990.15	\$993.02	\$1,006.14	\$1,019.45	\$1,032.94	\$1,046.62
Consumption Billing Revenues: In Village	\$336,009	\$336,009	\$336,009	\$349,597	\$355,734	\$361,688	\$367,549	\$420,583	\$421,804	\$427,378	\$433,030	\$438,761	\$444,571
Consumption Billing Revenues: Outside Village	\$17,685	\$17,685	\$17,685	\$18,400	\$18,723	\$19,036	\$19,345	\$22,136	\$22,200	\$22,494	\$22,791	\$23,093	\$23,398
Other Revenues	-\$94,305	-\$10,194	-\$2,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$259,389	\$343,500	\$350,920	\$367,997	\$374,457	\$380,725	\$386,894	\$442,719	\$444,004	\$449,872	\$455,822	\$461,854	\$467,969
Status Quo Assessed Property Value Allocated to SCA**	\$299,269,381	\$301,051,744	\$301,452,039	\$302,959,299	\$304,474,096	\$305,996,466	\$307,526,449	\$309,064,081	\$310,609,401	\$312,162,448	\$313,723,260	\$315,291,877	\$316,868,336
Sewer Capital Assessment	\$0.000127000	\$0.000200000	\$0.000099626	\$0.000099023	\$0.000229905	\$0.000163401	\$0.000162588	\$0.000297599	\$0.000140550	\$0.000145445	\$0.000150510	\$0.000155752	\$0.000161176
Average Assessed Household Value	\$400,000	\$400,000	\$400,000	\$402,000	\$404,010	\$406,030	\$408,060	\$410,101	\$412,151	\$414,212	\$416,283	\$418,364	\$420,456
Average Household Sewer Capital Assessment	\$50.80	\$80.00	\$39.85	\$39.81	\$92.88	\$66.35	\$66.35	\$122.05	\$57.93	\$60.25	\$62.65	\$65.16	\$67.77
Sewer Capital Assessment Revenue	\$38,007	\$60,210	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$91,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072
TOTAL ANNUAL REVENUES:	\$297,396	\$403,710	\$380,952	\$397,997	\$444,457	\$430,725	\$436,894	\$534,696	\$487,661	\$495,274	\$503,040	\$510,961	\$519,041
Average Charge/Household Including SCA : In Village:	\$841.84	\$871.04	\$830.89	\$862.84	\$930.36	\$917.84	\$931.64	\$1,112.19	\$1,050.95	\$1,066.39	\$1,082.10	\$1,098.10	\$1,114.39
Average Charge/Household Including SCA: Outside Village:	\$841.84	\$871.04	\$830.89	\$862.84	\$930.36	\$917.84	\$931.64	\$1,112.19	\$1,050.95	\$1,066.39	\$1,082.10	\$1,098.10	\$1,114.39

*Assumes 5% of Consumed Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Status Quo Sewer System
Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced Sewer System Consumption (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$53,115	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$53,115	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	
System Operating Costs											
Routine Capital Improvements (Not Financed)	\$42,665	\$43,518	\$44,388	\$45,276	\$46,182	\$47,105	\$48,047	\$49,008	\$49,988	\$50,988	
Liability Insurance	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	
Personal Services: Sewer Clerk	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	
Employee Benefits	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	
Administration: System Operator	\$134,720	\$137,414	\$140,162	\$142,966	\$145,825	\$148,741	\$151,716	\$154,750	\$157,845	\$161,002	
Chemicals/Utilities	\$226,916	\$231,454	\$236,083	\$240,805	\$245,621	\$250,533	\$255,544	\$260,655	\$265,868	\$271,185	
Contingency	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Bond Interest	\$38,863	\$36,738	\$34,529	\$32,231	\$29,841	\$27,355	\$24,755	\$22,097	\$19,297	\$16,322	
TOTAL OPERATING AND INTEREST COSTS:	\$474,168	\$480,449	\$486,814	\$493,262	\$499,793	\$566,406	\$571,087	\$575,770	\$580,451	\$585,126	
TOTAL ANNUAL EXPENSES:	\$527,282	\$535,689	\$544,263	\$553,008	\$561,929	\$681,401	\$690,682	\$700,148	\$709,804	\$719,653	
Invoiced Sewer System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	
Invoiced Sewer System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	
Consumption Charge/1,000 Gallons: In Village	\$8.29	\$8.39	\$8.51	\$8.62	\$8.73	\$9.90	\$9.98	\$10.06	\$10.14	\$10.22	\$8.34
Consumption Charge/1,000 Gallons: Outside Village	\$8.29	\$8.39	\$8.51	\$8.62	\$8.73	\$9.90	\$9.98	\$10.06	\$10.14	\$10.22	\$8.34
Consumption Charge per Average Household: In Village	\$1,060.48	\$1,074.53	\$1,088.77	\$1,103.19	\$1,117.79	\$1,266.77	\$1,277.24	\$1,287.72	\$1,298.19	\$1,308.64	\$1,067.45
Consumption Charge per Average Household: Outside Village	\$1,060.48	\$1,074.53	\$1,088.77	\$1,103.19	\$1,117.79	\$1,266.77	\$1,277.24	\$1,287.72	\$1,298.19	\$1,308.64	\$1,067.45
Consumption Billing Revenues: In Village	\$450,459	\$456,427	\$462,473	\$468,599	\$474,803	\$538,086	\$542,533	\$546,982	\$551,429	\$555,870	
Consumption Billing Revenues: Outside Village	\$23,708	\$24,022	\$24,341	\$24,663	\$24,990	\$28,320	\$28,554	\$28,789	\$29,023	\$29,256	
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL NON-TAX REVENUES:	\$474,168	\$480,449	\$486,814	\$493,262	\$499,793	\$566,406	\$571,087	\$575,770	\$580,451	\$585,126	
Status Quo Assessed Property Value Allocated to SCA**	\$318,452,678	\$320,044,941	\$321,645,166	\$323,253,392	\$324,869,659	\$326,494,007	\$328,126,477	\$329,767,109	\$331,415,945	\$333,073,025	
Sewer Capital Assessment	\$0.000166789	\$0.000172598	\$0.000178609	\$0.000184829	\$0.000191266	\$0.000352210	\$0.000364476	\$0.000377170	\$0.000390305	\$0.000403898	
Average Assessed Household Value	\$422,558	\$424,671	\$426,794	\$428,928	\$431,073	\$433,228	\$435,395	\$437,572	\$439,759	\$441,958	
Average Household Sewer Capital Assessment	\$70.48	\$73.30	\$76.23	\$79.28	\$82.45	\$152.59	\$158.69	\$165.04	\$171.64	\$178.51	\$95.47
Sewer Capital Assessment Revenue	\$53,115	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	
TOTAL ANNUAL REVENUES:	\$527,282	\$535,689	\$544,263	\$553,008	\$561,929	\$681,401	\$690,682	\$700,148	\$709,804	\$719,653	
Average Charge/Household Including SCA : In Village:	\$1,130.96	\$1,147.83	\$1,164.99	\$1,182.46	\$1,200.24	\$1,419.36	\$1,435.93	\$1,452.76	\$1,469.83	\$1,487.15	\$1,162.92
Average Charge/Household Including SCA: Outside Village:	\$1,130.96	\$1,147.83	\$1,164.99	\$1,182.46	\$1,200.24	\$1,419.36	\$1,435.93	\$1,452.76	\$1,469.83	\$1,487.15	\$1,162.92

*Assumes 5% of Consumed Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Water System with Nine Partners Expansion
Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses								
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Total Expansion Area Water Consumption: Nine Partners (Gallons)	0	0	0	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	64,495,500	64,495,500	64,495,500	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750
Status Quo Capital Costs (Financed with BAN)	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$1,215,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$40,802	\$42,434	\$44,131	\$45,897	\$47,732	\$49,642	\$51,627	\$53,692	\$55,840
BAN AND DEBT PRINCIPAL :	\$0	\$0	\$80,000	\$40,802	\$42,434	\$84,429	\$87,807	\$91,319	\$94,972	\$98,770	\$102,721	\$106,830
Status Quo System Operating Costs												
Routine Capital Improvements (Not Financed)	\$11,577	\$30,000	\$29,600	\$54,057	\$65,000	\$40,000	\$55,000	\$85,000	\$50,000	\$51,000	\$52,020	\$53,060
Liability Insurance	\$4,000	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888
Personal Services: Water Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466
Administration: System Operator	\$61,860	\$55,000	\$61,500	\$62,730	\$63,985	\$65,264	\$66,570	\$67,901	\$69,259	\$70,644	\$72,057	\$73,498
Chemicals/Testing	\$13,263	\$26,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853
Utilities/Supplies	\$25,642	\$35,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853
Contingency	\$0	\$50,185	\$44,300	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$1,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$48,000	\$46,388	\$44,712	\$42,968	\$41,155	\$39,269	\$37,308
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$1.95	\$1.99	\$2.03	\$2.07	\$2.11	\$2.15	\$2.20	\$2.24	\$2.28
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$7,722	\$7,877	\$8,034	\$8,195	\$8,359	\$8,526	\$8,697	\$8,871	\$9,048
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$48,600	\$46,968	\$45,271	\$43,505	\$41,669	\$39,760	\$37,774	\$35,709	\$33,562
TOTAL OPERATING AND INTEREST COSTS:	\$121,940	\$208,000	\$208,000	\$272,439	\$284,646	\$308,902	\$323,538	\$353,098	\$317,580	\$317,978	\$318,308	\$318,566
TOTAL ANNUAL EXPENSES:	\$121,940	\$208,000	\$288,000	\$313,241	\$327,080	\$393,331	\$411,344	\$444,417	\$412,551	\$416,748	\$421,029	\$425,396
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505
Consumption Charge/1,000 Gallons: In Village**	\$2.99	\$2.99	\$2.99	\$4.15	\$4.33	\$5.21	\$5.44	\$5.88	\$5.46	\$5.52	\$5.57	\$5.63
Consumption Charge/1,000 Gallons: Outside Village**	\$5.98	\$5.98	\$5.98	\$8.29	\$8.66	\$10.41	\$10.89	\$11.76	\$10.92	\$11.03	\$11.15	\$11.26
Consumption Charge per Average Household: In Village	\$382.72	\$382.72	\$382.72	\$530.70	\$554.15	\$666.40	\$696.91	\$752.95	\$698.96	\$706.07	\$713.32	\$720.72
Consumption Charge per Average Household: Outside Village	\$765.44	\$765.44	\$765.44	\$1,061.41	\$1,108.30	\$1,332.79	\$1,393.83	\$1,505.89	\$1,397.92	\$1,412.14	\$1,426.65	\$1,441.44
Consumption Billing Revenues: In Village	\$171,629	\$171,629	\$171,629	\$254,412	\$265,651	\$319,460	\$334,090	\$360,951	\$335,070	\$338,479	\$341,956	\$345,503
Consumption Billing Revenues: Outside Village	\$42,425	\$42,425	\$42,425	\$58,829	\$61,428	\$73,871	\$77,254	\$83,465	\$77,481	\$78,269	\$79,073	\$79,893
Other Revenues	-\$92,114	-\$6,054	\$73,946	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$121,940	\$208,000	\$288,000	\$313,241	\$327,080	\$393,331	\$411,344	\$444,417	\$412,551	\$416,748	\$421,029	\$425,396

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Water System with Nine Partners Expansion
Prepared By: R.S. Lynch & Company

<i>Village Fiscal Year: June 1st-May 31st</i>	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Total Expansion Area Water Consumption: Nine Partners (Gallons)	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250	3,960,250
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750	68,455,750
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$53,030	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	\$81,133
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$58,074	\$60,397	\$62,813	\$65,325	\$67,938	\$70,656	\$73,482	\$76,421	\$79,478	\$82,657	\$85,963	\$89,330
BAN AND DEBT PRINCIPAL :	\$111,103	\$115,547	\$120,169	\$124,976	\$129,975	\$135,174	\$140,581	\$146,204	\$152,053	\$158,135	\$164,460	\$170,863
Status Quo System Operating Costs												
Routine Capital Improvements (Not Financed)	\$54,122	\$55,204	\$56,308	\$57,434	\$58,583	\$59,755	\$60,950	\$62,169	\$63,412	\$64,680	\$65,974	\$67,292
Liability Insurance	\$8,045	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$10,001
Personal Services: Water Clerk	\$7,171	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,916
Employee Benefits	\$475	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$579	\$590
Administration: System Operator	\$74,968	\$76,468	\$77,997	\$79,557	\$81,148	\$82,771	\$84,426	\$86,115	\$87,837	\$89,594	\$91,386	\$93,213
Chemicals/Testing	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$45,468
Utilities/Supplies	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$45,468
Contingency	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$35,269	\$33,147	\$30,941	\$28,647	\$26,261	\$23,780	\$21,199	\$18,515	\$15,723	\$12,821	\$9,801	\$6,769
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$2.33	\$2.38	\$2.42	\$2.47	\$2.52	\$2.57	\$2.62	\$2.68	\$2.73	\$2.79	\$2.84	\$2.89
Incremental Expansion Area Operating Costs	\$9,229	\$9,414	\$9,602	\$9,794	\$9,990	\$10,190	\$10,393	\$10,601	\$10,813	\$11,030	\$11,250	\$11,474
Incremental Expansion Area Bond Interest	\$31,328	\$29,005	\$26,589	\$24,077	\$21,464	\$18,746	\$15,920	\$12,981	\$9,924	\$6,745	\$3,439	\$0.28
TOTAL OPERATING AND INTEREST COSTS:	\$318,746	\$318,845	\$318,857	\$318,777	\$318,599	\$318,318	\$317,926	\$317,419	\$316,790	\$316,030	\$315,134	\$314,188
TOTAL ANNUAL EXPENSES:	\$429,850	\$434,393	\$439,027	\$443,753	\$448,574	\$453,492	\$458,508	\$463,624	\$468,842	\$474,165	\$479,594	\$485,018
Invoiced Water System Consumption: In Village (Gallons)*	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245	61,361,245
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505
Consumption Charge/1,000 Gallons: In Village**	\$5.69	\$5.75	\$5.81	\$5.87	\$5.94	\$6.00	\$6.07	\$6.14	\$6.21	\$6.28	\$6.35	\$6.42
Consumption Charge/1,000 Gallons: Outside Village**	\$11.38	\$11.50	\$11.62	\$11.75	\$11.87	\$12.01	\$12.14	\$12.27	\$12.41	\$12.55	\$12.70	\$12.84
Consumption Charge per Average Household: In Village	\$728.27	\$735.96	\$743.81	\$751.82	\$759.99	\$768.32	\$776.82	\$785.49	\$794.33	\$803.35	\$812.55	\$821.92
Consumption Charge per Average Household: Outside Village	\$1,456.53	\$1,471.93	\$1,487.63	\$1,503.65	\$1,519.98	\$1,536.64	\$1,553.64	\$1,570.98	\$1,588.66	\$1,606.70	\$1,625.09	\$1,643.75
Consumption Billing Revenues: In Village	\$349,120	\$352,810	\$356,574	\$360,412	\$364,328	\$368,322	\$372,396	\$376,551	\$380,789	\$385,113	\$389,522	\$394,005
Consumption Billing Revenues: Outside Village	\$80,730	\$81,583	\$82,453	\$83,341	\$84,246	\$85,170	\$86,112	\$87,073	\$88,053	\$89,052	\$90,072	\$91,111
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$429,850	\$434,393	\$439,027	\$443,753	\$448,574	\$453,492	\$458,508	\$463,624	\$468,842	\$474,165	\$479,594	\$485,018

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Nine Partners Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses										
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Nine Partners (Gallons)	0	0	0	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	57,232,000	57,232,000	57,232,000	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500
Status Quo Capital Costs (Financed with BAN)	\$120,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$127,872	\$90,032	\$280,032	\$500,000	\$470,000	\$400,000	\$350,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$90,032	\$30,032	\$250,000	\$470,000	\$400,000	\$350,000	\$300,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$53,115
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$790,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$26,530	\$27,591	\$28,694	\$29,842	\$31,036	\$32,277	\$33,568	\$34,911	\$36,308	\$37,760	\$39,270
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$37,840	\$60,000	\$30,032	\$56,530	\$97,591	\$78,694	\$79,842	\$123,013	\$75,934	\$78,971	\$82,130	\$85,415	\$88,832	\$92,385
Status Quo System Operating Costs														
Routine Capital Improvements (Not Financed)	\$22,533	\$33,000	\$35,000	\$35,700	\$36,414	\$37,412	\$37,885	\$37,885	\$38,643	\$39,416	\$40,204	\$41,008	\$41,828	\$42,665
Liability Insurance	\$0	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	\$8,045	\$8,206
Personal Services: Sewer Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	\$7,171	\$7,314
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	\$475	\$485
Administration: System Operator	\$108,350	\$106,000	\$108,350	\$110,517	\$112,727	\$114,982	\$117,282	\$119,627	\$122,020	\$124,460	\$126,949	\$129,488	\$132,078	\$134,720
Chemicals/Utilities	\$122,908	\$179,850	\$182,500	\$186,150	\$189,873	\$193,670	\$197,544	\$201,495	\$205,525	\$209,635	\$213,828	\$218,104	\$222,466	\$226,916
Contingency	\$0	\$11,335	\$13,370	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$1,500	\$900	\$7,500	\$7,050	\$6,000	\$5,250	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$48,321	\$46,575	\$44,759	\$42,870	\$40,906	\$38,863
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$4.59	\$4.68	\$4.78	\$4.87	\$4.97	\$5.07	\$5.17	\$5.27	\$5.38	\$5.49	\$5.60
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$15,246	\$15,551	\$15,862	\$16,179	\$16,502	\$16,832	\$17,169	\$17,512	\$17,863	\$18,220	\$18,584
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$31,600	\$30,539	\$29,435	\$28,287	\$27,094	\$25,852	\$24,561	\$23,218	\$21,822	\$20,370	\$18,859
TOTAL OPERATING AND INTEREST COSTS:	\$259,389	\$343,500	\$350,920	\$414,842	\$420,546	\$426,021	\$431,360	\$486,315	\$486,689	\$491,602	\$496,553	\$501,539	\$506,559	\$511,612
TOTAL ANNUAL EXPENSES:	\$297,229	\$403,500	\$380,952	\$471,372	\$518,137	\$504,716	\$511,202	\$609,328	\$562,623	\$570,573	\$578,682	\$586,954	\$595,391	\$603,996
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900
Invoiced Water System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600
Consumption Charge/1,000 Gallons: In Village	\$6.18	\$6.18	\$6.18	\$6.85	\$6.95	\$7.04	\$7.12	\$8.03	\$8.04	\$8.12	\$8.20	\$8.28	\$8.37	\$8.45
Consumption Charge/1,000 Gallons: Outside Village	\$6.18	\$6.18	\$6.18	\$6.85	\$6.95	\$7.04	\$7.12	\$8.03	\$8.04	\$8.12	\$8.20	\$8.28	\$8.37	\$8.45
Consumption Charge per Average Household: In Village	\$791.04	\$791.04	\$791.04	\$876.91	\$888.96	\$900.54	\$911.82	\$1,027.99	\$1,028.78	\$1,039.16	\$1,049.63	\$1,060.17	\$1,070.78	\$1,081.46
Consumption Charge per Average Household: Outside Village	\$791.04	\$791.04	\$791.04	\$876.91	\$888.96	\$900.54	\$911.82	\$1,027.99	\$1,028.78	\$1,039.16	\$1,049.63	\$1,060.17	\$1,070.78	\$1,081.46
Consumption Billing Revenues: In Village	\$336,009	\$336,009	\$336,009	\$395,238	\$400,672	\$405,889	\$410,975	\$463,333	\$463,689	\$468,370	\$473,087	\$477,837	\$482,621	\$487,434
Consumption Billing Revenues: Outside Village	\$17,685	\$17,685	\$17,685	\$19,604	\$19,874	\$20,133	\$20,385	\$22,982	\$23,000	\$23,232	\$23,466	\$23,701	\$23,939	\$24,177
Other Revenues	-\$94,305	-\$10,194	-\$2,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$259,389	\$343,500	\$350,920	\$414,842	\$420,546	\$426,021	\$431,360	\$486,315	\$486,689	\$491,602	\$496,553	\$501,539	\$506,559	\$511,612
Total Assessed Property Value of Current System**	\$299,269,381	\$301,051,744	\$301,452,039	\$302,959,299	\$304,474,096	\$305,996,466	\$307,526,449	\$309,064,081	\$310,609,401	\$312,162,448	\$313,723,260	\$315,291,877	\$316,868,336	\$318,452,678
Total Estimated Assessed Property Value of Expansion Area***	\$0	\$0	\$0	\$7,002,840	\$7,037,854	\$7,073,043	\$7,108,409	\$7,143,951	\$7,179,670	\$7,215,569	\$7,251,647	\$7,287,905	\$7,324,344	\$7,360,966
Total Estimated Assessed Property Value with Expansion Area	\$299,269,381	\$301,051,744	\$301,452,039	\$309,962,139	\$311,511,950	\$313,069,510	\$314,634,857	\$316,208,031	\$317,789,072	\$319,378,017	\$320,974,907	\$322,579,782	\$324,192,681	\$325,813,644
Sewer Capital Assessment	\$0.000127000	\$0.000200000	\$0.000099626	\$0.000182376	\$0.000313281	\$0.000251364	\$0.000253761	\$0.000389026	\$0.000238943	\$0.000247265	\$0.000255876	\$0.000264787	\$0.000274008	\$0.000283551
Average Assessed Household Value	\$400,000	\$400,000	\$400,000	\$402,000	\$404,010	\$406,030	\$408,060	\$410,101	\$412,151	\$414,212	\$416,283	\$418,364	\$420,456	\$422,558
Average Household Sewer Capital Assessment	\$50.80	\$80.00	\$39.85	\$73.32	\$126.57	\$102.06	\$103.55	\$159.54	\$98.48	\$102.42	\$106.52	\$110.78	\$115.21	\$119.82
Sewer Capital Assessment Revenue	\$38,007	\$60,210	\$30,032	\$56,530	\$97,591	\$78,694	\$79,842	\$123,013	\$75,934	\$78,971	\$82,130	\$85,415	\$88,832	\$92,385
TOTAL REVENUES:	297,396	403,710	380,952	471,372	518,137	504,716	511,202	609,328	562,623	570,573	578,682	586,954	595,391	603,996
Average Charge/Household Including SCA : In Village:	\$841.84	\$871.04	\$830.89	\$950.22	\$1,015.53	\$1,002.60	\$1,015.37	\$1,187.53	\$1,127.26	\$1,141.58	\$1,156.15	\$1,170.95	\$1,185.99	\$1,201.28
Average Charge/Household Including SCA: Outside Village:	\$841.84	\$871.04	\$830.89	\$950.22	\$1,015.53	\$1,002.60	\$1,015.37	\$1,187.53	\$1,127.26	\$1,141.58	\$1,156.15	\$1,170.95	\$1,185.99	\$1,201.28

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System
 ***Assumes 26 Households Opt to Hook-In to System and that 1/3 of their Assessed Value was Already in the Total Assessed Property Value of Current System

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Nine Partners Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Nine Partners (Gallons)	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500	3,321,500
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500	60,553,500
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	\$134,527
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$40,841	\$42,475	\$44,174	\$45,941	\$47,778	\$49,689	\$51,677	\$53,744	\$55,894	\$55,894
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$96,080	\$99,923	\$103,920	\$108,077	\$162,773	\$169,284	\$176,055	\$183,097	\$190,421	\$190,421
Status Quo System Operating Costs										
Routine Capital Improvements (Not Financed)	\$43,518	\$44,388	\$45,276	\$46,182	\$47,105	\$48,047	\$49,008	\$49,988	\$50,988	\$50,988
Liability Insurance	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Sewer Clerk	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$137,414	\$140,162	\$142,966	\$145,825	\$148,741	\$151,716	\$154,750	\$157,845	\$161,002	\$161,002
Chemicals/Utilities	\$231,454	\$236,083	\$240,805	\$245,621	\$250,533	\$255,544	\$260,655	\$265,868	\$271,185	\$271,185
Contingency	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$36,738	\$34,529	\$32,231	\$29,841	\$87,355	\$82,755	\$77,972	\$72,997	\$67,822	\$67,822
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$5.71	\$5.82	\$5.94	\$6.06	\$6.18	\$6.30	\$6.43	\$6.56	\$6.69	\$6.69
Incremental Expansion Area Operating Costs	\$18,956	\$19,335	\$19,722	\$20,116	\$20,519	\$20,929	\$21,348	\$21,775	\$22,210	\$22,210
Incremental Expansion Area Bond Interest	\$17,289	\$15,655	\$13,956	\$12,189	\$10,351	\$8,440	\$6,453	\$4,386	\$2,236	\$2,236
TOTAL OPERATING AND INTEREST COSTS:	\$516,694	\$521,804	\$526,940	\$532,098	\$597,276	\$600,457	\$603,571	\$606,611	\$609,572	\$609,572
TOTAL ANNUAL EXPENSES:	\$612,774	\$621,728	\$630,860	\$640,175	\$760,049	\$769,740	\$779,626	\$789,709	\$799,993	\$799,993
Invoiced Water System Consumption: In Village (Gallons)*	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900	57,691,900
Invoiced Water System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600
Consumption Charge/1,000 Gallons: In Village	\$8.53	\$8.62	\$8.70	\$8.79	\$8.86	\$8.92	\$8.97	\$9.02	\$9.07	\$8.50
Consumption Charge/1,000 Gallons: Outside Village	\$8.53	\$8.62	\$8.70	\$8.79	\$8.86	\$8.92	\$8.97	\$9.02	\$9.07	\$8.50
Consumption Charge per Average Household: In Village	\$1,092.20	\$1,103.01	\$1,113.86	\$1,124.77	\$1,262.54	\$1,269.27	\$1,275.85	\$1,282.27	\$1,288.53	\$1,087.43
Consumption Charge per Average Household: Outside Village	\$1,092.20	\$1,103.01	\$1,113.86	\$1,124.77	\$1,262.54	\$1,269.27	\$1,275.85	\$1,282.27	\$1,288.53	\$1,087.43
Consumption Billing Revenues: In Village	\$492,276	\$497,145	\$502,038	\$506,952	\$569,050	\$572,081	\$575,047	\$577,944	\$580,765	\$580,765
Consumption Billing Revenues: Outside Village	\$24,418	\$24,659	\$24,902	\$25,146	\$28,226	\$28,376	\$28,523	\$28,667	\$28,807	\$28,807
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$516,694	\$521,804	\$526,940	\$532,098	\$597,276	\$600,457	\$603,571	\$606,611	\$609,572	\$609,572
Total Assessed Property Value of Current System**	\$320,044,941	\$321,645,166	\$323,253,392	\$324,869,659	\$326,494,007	\$328,126,477	\$329,767,109	\$331,415,945	\$333,073,025	\$333,073,025
Total Estimated Assessed Property Value of Expansion Area***	\$7,397,771	\$7,434,760	\$7,471,934	\$7,509,293	\$7,546,840	\$7,584,574	\$7,622,497	\$7,660,609	\$7,698,912	\$7,698,912
Total Estimated Assessed Property Value with Expansion Area	\$327,442,712	\$329,079,926	\$330,725,325	\$332,378,952	\$334,040,847	\$335,711,051	\$337,389,606	\$339,076,554	\$340,771,937	\$340,771,937
Sewer Capital Assessment	\$0.000293426	\$0.000303645	\$0.000314219	\$0.000325162	\$0.000487284	\$0.000504254	\$0.000521815	\$0.000539988	\$0.000558794	\$0.000558794
Average Assessed Household Value	\$424,671	\$426,794	\$428,928	\$431,073	\$433,228	\$435,395	\$437,572	\$439,759	\$441,958	\$441,958
Average Household Sewer Capital Assessment	\$124.61	\$129.59	\$134.78	\$140.17	\$211.11	\$219.55	\$228.33	\$237.46	\$246.96	\$144.54
Sewer Capital Assessment Revenue	\$96,080	\$99,923	\$103,920	\$108,077	\$162,773	\$169,284	\$176,055	\$183,097	\$190,421	\$190,421
TOTAL REVENUES:	612,774	621,728	630,860	640,175	760,049	769,740	779,626	789,709	799,993	799,993
Average Charge/Household Including SCA : In Village:	\$1,216.81	\$1,232.60	\$1,248.64	\$1,264.93	\$1,473.65	\$1,488.81	\$1,504.18	\$1,519.74	\$1,535.50	\$1,231.97
Average Charge/Household Including SCA: Outside Village:	\$1,216.81	\$1,232.60	\$1,248.64	\$1,264.93	\$1,473.65	\$1,488.81	\$1,504.18	\$1,519.74	\$1,535.50	\$1,231.97

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System
 ***Assumes 26 Households Opt to Hook-In to System and that 1/3 of their Assessed Value was Already in the Total Assessed Property Value of Current System

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Water System with Bennett College Expansion
Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses									
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Total Expansion Area Water Consumption: Bennett College (Gallons)	0	0	0	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	64,495,500	64,495,500	64,495,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500
Status Quo Capital Costs (Financed with BAN)	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990	\$53,030
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN AND DEBT PRINCIPAL :	\$0	\$0	\$80,000	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990	\$53,030
Status Quo System Operating Costs													
Routine Capital Improvements (Not Financed)	\$11,577	\$30,000	\$29,600	\$54,057	\$65,000	\$40,000	\$55,000	\$85,000	\$50,000	\$51,000	\$52,020	\$53,060	\$54,122
Liability Insurance	\$4,000	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	\$8,045
Personal Services: Water Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	\$7,171
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	\$475
Administration: System Operator	\$61,860	\$55,000	\$61,500	\$62,730	\$63,985	\$65,264	\$66,570	\$67,901	\$69,259	\$70,644	\$72,057	\$73,498	\$74,968
Chemicals/Testing	\$13,263	\$26,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	\$36,570
Utilities/Supplies	\$25,642	\$35,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	\$36,570
Contingency	\$0	\$50,185	\$44,300	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$1,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$48,000	\$46,388	\$44,712	\$42,968	\$41,155	\$39,269	\$37,308	\$35,269
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$1.95	\$1.99	\$2.03	\$2.07	\$2.11	\$2.15	\$2.20	\$2.24	\$2.28	\$2.33
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$21,353	\$21,780	\$22,215	\$22,659	\$23,113	\$23,575	\$24,046	\$24,527	\$25,018	\$25,518
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL OPERATING AND INTEREST COSTS:	\$121,940	\$208,000	\$208,000	\$237,469	\$251,581	\$277,812	\$294,496	\$326,182	\$292,868	\$295,553	\$298,255	\$300,974	\$303,708
TOTAL ANNUAL EXPENSES:	\$121,940	\$208,000	\$288,000	\$237,469	\$251,581	\$318,110	\$336,407	\$369,769	\$338,198	\$342,696	\$347,284	\$351,964	\$356,737
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505
Consumption Charge/1,000 Gallons: In Village**	\$2.99	\$2.99	\$2.99	\$2.88	\$3.05	\$3.85	\$4.08	\$4.48	\$4.10	\$4.15	\$4.21	\$4.26	\$4.32
Consumption Charge/1,000 Gallons: Outside Village**	\$5.98	\$5.98	\$5.98	\$5.75	\$6.10	\$7.71	\$8.15	\$8.96	\$8.19	\$8.30	\$8.41	\$8.53	\$8.64
Consumption Charge per Average Household: In Village	\$382.72	\$382.72	\$382.72	\$368.26	\$390.14	\$493.31	\$521.69	\$573.42	\$524.47	\$531.44	\$538.56	\$545.81	\$553.21
Consumption Charge per Average Household: Outside Village	\$765.44	\$765.44	\$765.44	\$736.52	\$780.28	\$986.63	\$1,043.37	\$1,146.85	\$1,048.93	\$1,062.88	\$1,077.11	\$1,091.62	\$1,106.43
Consumption Billing Revenues: In Village	\$171,629	\$171,629	\$171,629	\$196,647	\$208,333	\$263,426	\$278,577	\$306,204	\$280,060	\$283,785	\$287,584	\$291,460	\$295,412
Consumption Billing Revenues: Outside Village	\$42,425	\$42,425	\$42,425	\$40,822	\$43,248	\$54,685	\$57,830	\$63,565	\$58,138	\$58,911	\$59,700	\$60,504	\$61,325
Other Revenues	-\$92,114	-\$6,054	\$73,946	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$121,940	\$208,000	\$288,000	\$237,469	\$251,581	\$318,110	\$336,407	\$369,769	\$338,198	\$342,696	\$347,284	\$351,964	\$356,737

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents
**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Water System with Bennett College Expansion
Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	
Total Expansion Area Water Consumption: Bennett College (Gallons)	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	
TOTAL CONSUMPTION:	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	75,445,500	
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
BAN AND DEBT PRINCIPAL :	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	
Status Quo System Operating Costs											
Routine Capital Improvements (Not Financed)	\$55,204	\$56,308	\$57,434	\$58,583	\$59,755	\$60,950	\$62,169	\$63,412	\$64,680	\$65,974	
Liability Insurance	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	
Personal Services: Water Clerk	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	
Employee Benefits	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	
Administration: System Operator	\$76,468	\$77,997	\$79,557	\$81,148	\$82,771	\$84,426	\$86,115	\$87,837	\$89,594	\$91,386	
Chemicals/Testing	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	
Utilities/Supplies	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	
Contingency	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Bond Interest	\$33,147	\$30,941	\$28,647	\$26,261	\$23,780	\$21,199	\$18,515	\$15,723	\$12,821	\$9,801	
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$2.38	\$2.42	\$2.47	\$2.52	\$2.57	\$2.62	\$2.68	\$2.73	\$2.79	\$2.84	
Incremental Expansion Area Operating Costs	\$26,029	\$26,549	\$27,080	\$27,622	\$28,174	\$28,738	\$29,312	\$29,899	\$30,497	\$31,107	
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL OPERATING AND INTEREST COSTS:	\$306,455	\$309,215	\$311,986	\$314,767	\$317,556	\$320,351	\$323,150	\$325,951	\$328,753	\$331,552	
TOTAL ANNUAL EXPENSES:	\$361,606	\$366,572	\$371,637	\$376,804	\$382,074	\$387,450	\$392,933	\$398,526	\$404,230	\$410,049	
Invoiced Water System Consumption: In Village (Gallons)*	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	68,350,995	
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	7,094,505	
Consumption Charge/1,000 Gallons: In Village**	\$4.38	\$4.44	\$4.50	\$4.57	\$4.63	\$4.69	\$4.76	\$4.83	\$4.90	\$4.97	\$4.30
Consumption Charge/1,000 Gallons: Outside Village**	\$8.76	\$8.88	\$9.01	\$9.13	\$9.26	\$9.39	\$9.52	\$9.66	\$9.79	\$9.94	\$8.60
Consumption Charge per Average Household: In Village	\$560.77	\$568.47	\$576.32	\$584.33	\$592.51	\$600.84	\$609.35	\$618.02	\$626.87	\$635.89	\$550.68
Consumption Charge per Average Household: Outside Village	\$1,121.53	\$1,136.93	\$1,152.64	\$1,168.67	\$1,185.01	\$1,201.69	\$1,218.69	\$1,236.04	\$1,253.73	\$1,271.78	\$1,101.37
Consumption Billing Revenues: In Village	\$299,444	\$303,557	\$307,751	\$312,030	\$316,394	\$320,845	\$325,386	\$330,017	\$334,741	\$339,560	
Consumption Billing Revenues: Outside Village	\$62,162	\$63,015	\$63,886	\$64,774	\$65,680	\$66,604	\$67,547	\$68,508	\$69,489	\$70,489	
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL ANNUAL REVENUES:	\$361,606	\$366,572	\$371,637	\$376,804	\$382,074	\$387,450	\$392,933	\$398,526	\$404,230	\$410,049	

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents
**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
 Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Bennett College Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses										
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Bennett (Gallons)	0	0	0	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	57,232,000	57,232,000	57,232,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000
Status Quo Capital Costs (Financed with BAN)	\$120,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$127,872	\$90,032	\$280,032	\$500,000	\$470,000	\$400,000	\$350,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$90,032	\$30,032	\$250,000	\$470,000	\$400,000	\$350,000	\$300,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$53,115
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$91,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$53,115
Status Quo System Operating Costs														
Routine Capital Improvements (Not Financed)	\$22,533	\$33,000	\$35,000	\$35,700	\$36,414	\$37,412	\$37,885	\$37,885	\$38,643	\$39,416	\$40,204	\$41,008	\$41,828	\$42,665
Liability Insurance	\$0	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	\$8,045	\$8,206
Personal Services: Sewer Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	\$7,171	\$7,314
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	\$475	\$485
Administration: System Operator	\$108,350	\$106,000	\$108,350	\$110,517	\$112,727	\$114,982	\$117,282	\$119,627	\$122,020	\$124,460	\$126,949	\$129,488	\$132,078	\$134,720
Chemicals/Utilities	\$122,908	\$179,850	\$182,500	\$186,150	\$189,873	\$193,670	\$197,544	\$201,495	\$205,525	\$209,635	\$213,828	\$218,104	\$222,466	\$226,916
Contingency	\$0	\$11,335	\$13,370	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$1,500	\$900	\$7,500	\$7,050	\$6,000	\$5,250	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$48,321	\$46,575	\$44,759	\$42,870	\$40,906	\$38,863
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$4.59	\$4.68	\$4.78	\$4.87	\$4.97	\$5.07	\$5.17	\$5.27	\$5.38	\$5.49	\$5.60
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$50,261	\$51,266	\$52,291	\$53,337	\$54,404	\$55,492	\$56,601	\$57,734	\$58,888	\$60,066	\$61,267
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL OPERATING AND INTEREST COSTS:	\$259,389	\$343,500	\$350,920	\$418,257	\$425,722	\$433,016	\$440,231	\$447,123	\$454,996	\$463,073	\$471,355	\$479,842	\$488,535	\$497,535
TOTAL ANNUAL EXPENSES:	\$297,229	\$403,500	\$380,952	\$448,257	\$495,722	\$483,016	\$490,231	\$589,100	\$543,152	\$551,876	\$560,774	\$569,850	\$579,107	\$588,550
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400
Invoiced Water System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600
Consumption Charge/1,000 Gallons: In Village	\$6.18	\$6.18	\$6.18	\$6.13	\$6.24	\$6.35	\$6.46	\$6.57	\$6.68	\$6.79	\$6.90	\$7.01	\$7.12	\$7.23
Consumption Charge/1,000 Gallons: Outside Village	\$6.18	\$6.18	\$6.18	\$6.13	\$6.24	\$6.35	\$6.46	\$6.57	\$6.68	\$6.79	\$6.90	\$7.01	\$7.12	\$7.23
Consumption Charge per Average Household: In Village	\$791.04	\$791.04	\$791.04	\$785.21	\$799.22	\$812.91	\$826.46	\$840.01	\$853.56	\$867.11	\$880.66	\$894.21	\$907.76	\$921.31
Consumption Charge per Average Household: Outside Village	\$791.04	\$791.04	\$791.04	\$785.21	\$799.22	\$812.91	\$826.46	\$840.01	\$853.56	\$867.11	\$880.66	\$894.21	\$907.76	\$921.31
Consumption Billing Revenues: In Village	\$336,009	\$336,009	\$336,009	\$400,703	\$407,855	\$414,842	\$421,754	\$428,688	\$435,633	\$442,588	\$449,553	\$456,528	\$463,503	\$470,478
Consumption Billing Revenues: Outside Village	\$17,685	\$17,685	\$17,685	\$17,554	\$17,868	\$18,174	\$18,476	\$18,776	\$19,076	\$19,376	\$19,676	\$19,976	\$20,276	\$20,576
Other Revenues	-\$94,305	-\$10,194	-\$2,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$259,389	\$343,500	\$350,920	\$418,257	\$425,722	\$433,016	\$440,231	\$447,123	\$454,996	\$463,073	\$471,355	\$479,842	\$488,535	\$497,535
0.50% Annual Escalation														
Total Assessed Property Value of Current System**	\$299,269,381	\$301,051,744	\$301,452,039	\$302,959,299	\$304,474,096	\$305,996,466	\$307,526,449	\$309,064,081	\$310,609,401	\$312,162,448	\$313,723,260	\$315,291,877	\$316,868,336	\$318,452,678
Total Estimated Assessed Property Value of Expansion Area***	\$0	\$0	\$0	\$23,750,000	\$23,868,750	\$23,988,094	\$24,108,034	\$24,228,574	\$24,349,717	\$24,471,466	\$24,593,823	\$24,716,792	\$24,840,376	\$24,964,578
Total Estimated Assessed Property Value with Expansion Area	\$299,269,381	\$301,051,744	\$301,452,039	\$326,709,299	\$328,342,846	\$329,984,560	\$331,634,483	\$333,292,655	\$334,959,118	\$336,633,914	\$338,317,084	\$340,008,669	\$341,708,712	\$343,417,256
Sewer Capital Assessment	\$0.000127000	\$0.000200000	\$0.000099626	\$0.000091825	\$0.000213192	\$0.000151522	\$0.000150768	\$0.000275965	\$0.000130333	\$0.000134872	\$0.000139569	\$0.000144430	\$0.000149460	\$0.000154665
Average Assessed Household Value	\$400,000	\$400,000	\$400,000	\$402,000	\$404,010	\$406,030	\$408,060	\$410,101	\$412,151	\$414,217	\$416,283	\$418,364	\$420,456	\$422,558
Average Household Sewer Capital Assessment	\$50.80	\$80.00	\$39.85	\$63.91	\$86.13	\$61.52	\$61.52	\$113.17	\$53.72	\$58.10	\$62.42	\$66.74	\$71.06	\$75.38
Sewer Capital Assessment Revenue	\$38,007	\$60,210	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$91,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$53,115
TOTAL REVENUES:	297,396	403,710	380,952	448,257	495,722	483,016	490,231	589,100	543,152	551,876	560,774	569,850	579,107	588,550
Average Charge/Household Including SCA : In Village:	\$841.84	\$871.04	\$830.89	\$822.12	\$885.35	\$874.44	\$887.98	\$1,046.44	\$991.43	\$1,006.68	\$1,022.21	\$1,038.03	\$1,054.14	\$1,070.54
Average Charge/Household Including SCA: Outside Village:	\$841.84	\$871.04	\$830.89	\$822.12	\$885.35	\$874.44	\$887.98	\$1,046.44	\$991.43	\$1,006.68	\$1,022.21	\$1,038.03	\$1,054.14	\$1,070.54

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes a \$250,000 Assessed Value per Unit (95 Units)

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Bennett College Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Bennett (Gallons)	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000	10,950,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000	68,182,000
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	\$134,527
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	\$134,527
Status Quo System Operating Costs										
Routine Capital Improvements (Not Financed)	\$43,518	\$44,388	\$45,276	\$46,182	\$47,105	\$48,047	\$49,008	\$49,988	\$50,988	\$50,988
Liability Insurance	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Sewer Clerk	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$137,414	\$140,162	\$142,966	\$145,825	\$148,741	\$151,716	\$154,750	\$157,845	\$161,002	\$161,002
Chemicals/Utilities	\$231,454	\$236,083	\$240,805	\$245,621	\$250,533	\$255,544	\$260,655	\$265,868	\$271,185	\$271,185
Contingency	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$36,738	\$34,529	\$32,231	\$29,841	\$87,355	\$82,755	\$77,972	\$72,997	\$67,822	\$67,822
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$5.71	\$5.82	\$5.94	\$6.06	\$6.18	\$6.30	\$6.43	\$6.56	\$6.69	\$6.69
Incremental Expansion Area Operating Costs	\$62,493	\$63,742	\$65,017	\$66,318	\$67,644	\$68,997	\$70,377	\$71,784	\$73,220	\$73,220
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL OPERATING AND INTEREST COSTS:	\$542,942	\$550,557	\$558,279	\$566,110	\$634,050	\$640,084	\$646,147	\$652,235	\$658,346	\$658,346
TOTAL ANNUAL EXPENSES:	\$598,181	\$608,005	\$618,026	\$628,247	\$749,045	\$759,679	\$770,525	\$781,589	\$792,874	\$792,874
Invoiced Water System Consumption: In Village (Gallons)*	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400	65,320,400
Invoiced Water System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600	2,861,600
Consumption Charge/1,000 Gallons: In Village	\$7.96	\$8.07	\$8.19	\$8.30	\$8.42	\$8.54	\$8.66	\$8.78	\$8.90	\$8.90
Consumption Charge/1,000 Gallons: Outside Village	\$7.96	\$8.07	\$8.19	\$8.30	\$8.42	\$8.54	\$8.66	\$8.78	\$8.90	\$8.90
Consumption Charge per Average Household: In Village	\$1,019.28	\$1,033.58	\$1,048.07	\$1,062.77	\$1,077.57	\$1,092.37	\$1,107.17	\$1,122.00	\$1,136.83	\$1,151.66
Consumption Charge per Average Household: Outside Village	\$1,019.28	\$1,033.58	\$1,048.07	\$1,062.77	\$1,077.57	\$1,092.37	\$1,107.17	\$1,122.00	\$1,136.83	\$1,151.66
Consumption Billing Revenues: In Village	\$520,155	\$527,450	\$534,848	\$542,351	\$607,439	\$613,220	\$619,028	\$624,861	\$630,715	\$630,715
Consumption Billing Revenues: Outside Village	\$22,787	\$23,107	\$23,431	\$23,760	\$26,611	\$26,864	\$27,119	\$27,374	\$27,631	\$27,631
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$542,942	\$550,557	\$558,279	\$566,110	\$634,050	\$640,084	\$646,147	\$652,235	\$658,346	\$658,346
Total Assessed Property Value of Current System**	\$320,044,941	\$321,645,166	\$323,253,392	\$324,869,659	\$326,494,007	\$328,126,477	\$329,767,109	\$331,415,945	\$333,073,025	\$333,073,025
Total Estimated Assessed Property Value of Expansion Area***	\$25,089,401	\$25,214,848	\$25,340,922	\$25,467,627	\$25,594,965	\$25,722,940	\$25,851,555	\$25,980,812	\$26,110,716	\$26,110,716
Total Estimated Assessed Property Value with Expansion Area	\$345,134,342	\$346,860,014	\$348,594,314	\$350,337,286	\$352,088,972	\$353,849,417	\$355,618,664	\$357,396,757	\$359,183,741	\$359,183,741
Sewer Capital Assessment	\$0.000160051	\$0.000165625	\$0.000171393	\$0.000177362	\$0.000183607	\$0.000189981	\$0.000196495	\$0.000203149	\$0.000209943	\$0.000216877
Average Assessed Household Value	\$424,671	\$426,794	\$428,928	\$431,073	\$433,228	\$435,395	\$437,572	\$439,759	\$441,958	\$441,958
Average Household Sewer Capital Assessment	\$67.97	\$70.69	\$73.52	\$76.46	\$79.50	\$82.64	\$85.88	\$89.22	\$92.66	\$92.66
Sewer Capital Assessment Revenue	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	\$134,527
TOTAL REVENUES:	598,181	608,005	618,026	628,247	749,045	759,679	770,525	781,589	792,874	792,874
Average Charge/Household Including SCA : In Village:	\$1,087.25	\$1,104.26	\$1,121.59	\$1,139.23	\$1,331.82	\$1,348.80	\$1,366.07	\$1,383.62	\$1,401.46	\$1,099.17
Average Charge/Household Including SCA: Outside Village:	\$1,087.25	\$1,104.26	\$1,121.59	\$1,139.23	\$1,331.82	\$1,348.80	\$1,366.07	\$1,383.62	\$1,401.46	\$1,099.17

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Village Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes a \$250,000 Assessed Value per Unit (95 Units)

VILLAGE OF MILLBROOK, NY
 Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Water System with Rodrigo Knolls Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses									
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	
Total Expansion Area Water Consumption: Rodrigo Knolls (Gallons)	0	0	0	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	
TOTAL CONSUMPTION:	64,495,500	64,495,500	64,495,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	
Status Quo Capital Costs (Financed with BAN)	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Outstanding BAN Balance Subject to BAN Interest	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Ending Balance of BAN	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0	
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990	
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$648,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$21,761	\$22,631	\$23,537	\$24,478	\$25,457	\$26,476	\$27,535	\$28,636	\$29,781	
BAN AND DEBT PRINCIPAL :	\$0	\$0	\$80,000	\$21,761	\$22,631	\$63,835	\$66,388	\$69,044	\$71,805	\$74,678	\$77,665	\$80,771	
Status Quo System Operating Costs													
Routine Capital Improvements (Not Financed)	\$11,577	\$30,000	\$29,600	\$54,057	\$65,000	\$40,000	\$55,000	\$85,000	\$50,000	\$51,000	\$52,020	\$53,060	
Liability Insurance	\$4,000	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	
Personal Services: Water Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	
Administration: System Operator	\$61,860	\$55,000	\$61,500	\$62,730	\$63,985	\$65,264	\$66,570	\$67,901	\$69,259	\$70,644	\$72,057	\$73,498	
Chemicals/Testing	\$13,263	\$26,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	
Utilities/Supplies	\$25,642	\$35,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	
Contingency	\$0	\$50,185	\$44,300	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$1,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$48,000	\$46,388	\$44,712	\$42,968	\$41,155	\$39,269	\$37,308	
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$1.95	\$1.99	\$2.03	\$2.07	\$2.11	\$2.15	\$2.20	\$2.24	\$2.28	
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$5,979	\$6,098	\$6,220	\$6,345	\$6,472	\$6,601	\$6,733	\$6,868	\$7,005	
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$25,920	\$25,050	\$24,144	\$23,203	\$22,224	\$21,205	\$20,146	\$19,045	\$17,900	
TOTAL OPERATING AND INTEREST COSTS:	\$121,940	\$208,000	\$208,000	\$248,016	\$260,949	\$285,962	\$301,385	\$331,765	\$297,100	\$298,386	\$299,641	\$300,861	
TOTAL ANNUAL EXPENSES:	\$121,940	\$208,000	\$288,000	\$269,776	\$283,580	\$349,796	\$367,773	\$400,809	\$368,905	\$373,064	\$377,305	\$381,632	
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	
Consumption Charge/1,000 Gallons: In Village**	\$2.99	\$2.99	\$2.99	\$3.47	\$3.65	\$4.50	\$4.73	\$5.16	\$4.75	\$4.80	\$4.85	\$4.91	
Consumption Charge/1,000 Gallons: Outside Village**	\$5.98	\$5.98	\$5.98	\$6.94	\$7.30	\$9.00	\$9.46	\$10.31	\$9.49	\$9.60	\$9.71	\$9.82	
Consumption Charge per Average Household: In Village	\$382.72	\$382.72	\$382.72	\$444.29	\$467.03	\$576.08	\$605.68	\$660.09	\$607.55	\$614.40	\$621.38	\$628.51	
Consumption Charge per Average Household: Outside Village	\$765.44	\$765.44	\$765.44	\$888.59	\$934.05	\$1,152.16	\$1,211.37	\$1,320.18	\$1,215.10	\$1,228.79	\$1,242.76	\$1,257.02	
Consumption Billing Revenues: In Village	\$171,629	\$171,629	\$171,629	\$199,241	\$209,436	\$258,339	\$271,616	\$296,014	\$272,452	\$275,523	\$278,656	\$281,851	
Consumption Billing Revenues: Outside Village	\$42,425	\$42,425	\$42,425	\$70,535	\$74,144	\$91,457	\$96,157	\$104,794	\$96,453	\$97,540	\$98,649	\$99,781	
Other Revenues	-\$92,114	-\$6,054	\$73,946	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL ANNUAL REVENUES:	\$121,940	\$208,000	\$288,000	\$269,776	\$283,580	\$349,796	\$367,773	\$400,809	\$368,905	\$373,064	\$377,305	\$381,632	

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Water System with Rodrigo Knolls Expansion
Prepared By: R.S. Lynch & Company

<i>Village Fiscal Year: June 1st-May 31st</i>	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Total Expansion Area Water Consumption: Rodrigo Knolls (Gallons)	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000	3,066,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500	67,561,500
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$53,030	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	\$78,497
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$30,973	\$32,212	\$33,500	\$34,840	\$36,234	\$37,683	\$39,190	\$40,758	\$42,388	\$44,084	\$45,847	\$45,847
BAN AND DEBT PRINCIPAL :	\$84,002	\$87,362	\$90,857	\$94,491	\$98,271	\$102,202	\$106,290	\$110,541	\$114,963	\$119,561	\$124,344	
Status Quo System Operating Costs												
Routine Capital Improvements (Not Financed)	\$54,122	\$55,204	\$56,308	\$57,434	\$58,583	\$59,755	\$60,950	\$62,169	\$63,412	\$64,680	\$65,974	\$65,974
Liability Insurance	\$8,045	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Water Clerk	\$7,171	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$475	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$74,968	\$76,468	\$77,997	\$79,557	\$81,148	\$82,771	\$84,426	\$86,115	\$87,837	\$89,594	\$91,386	\$91,386
Chemicals/Testing	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Utilities/Supplies	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Contingency	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$35,269	\$33,147	\$30,941	\$28,647	\$26,261	\$23,780	\$21,199	\$18,515	\$15,723	\$12,821	\$9,801	\$9,801
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$2.33	\$2.38	\$2.42	\$2.47	\$2.52	\$2.57	\$2.62	\$2.68	\$2.73	\$2.79	\$2.84	\$2.84
Incremental Expansion Area Operating Costs	\$7,145	\$7,288	\$7,434	\$7,582	\$7,734	\$7,889	\$8,047	\$8,207	\$8,372	\$8,539	\$8,710	\$8,710
Incremental Expansion Area Bond Interest	\$16,708	\$15,469	\$14,181	\$12,841	\$11,447	\$9,998	\$8,491	\$6,923	\$5,293	\$3,597	\$1,834	\$1,834
TOTAL OPERATING AND INTEREST COSTS:	\$302,043	\$303,184	\$304,281	\$305,330	\$306,327	\$307,268	\$308,150	\$308,968	\$309,717	\$310,392	\$310,989	
TOTAL ANNUAL EXPENSES:	\$386,045	\$390,546	\$395,138	\$399,821	\$404,598	\$409,470	\$414,440	\$419,509	\$424,680	\$429,954	\$435,333	
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995
Invoiced Water System Consumption: Outside Village (Gallons)*	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505	10,160,505
Consumption Charge/1,000 Gallons: In Village**	\$4.97	\$5.02	\$5.08	\$5.14	\$5.21	\$5.27	\$5.33	\$5.40	\$5.46	\$5.53	\$5.60	\$4.94
Consumption Charge/1,000 Gallons: Outside Village**	\$9.93	\$10.05	\$10.17	\$10.29	\$10.41	\$10.54	\$10.66	\$10.80	\$10.93	\$11.06	\$11.20	\$9.88
Consumption Charge per Average Household: In Village	\$635.78	\$643.19	\$650.75	\$658.46	\$666.33	\$674.35	\$682.54	\$690.89	\$699.40	\$708.09	\$716.95	\$632.59
Consumption Charge per Average Household: Outside Village	\$1,271.55	\$1,286.38	\$1,301.50	\$1,316.93	\$1,332.66	\$1,348.71	\$1,365.08	\$1,381.77	\$1,398.81	\$1,416.18	\$1,433.90	\$1,265.17
Consumption Billing Revenues: In Village	\$285,111	\$288,435	\$291,826	\$295,285	\$298,812	\$302,411	\$306,081	\$309,825	\$313,644	\$317,539	\$321,512	\$321,512
Consumption Billing Revenues: Outside Village	\$100,934	\$102,111	\$103,312	\$104,536	\$105,785	\$107,059	\$108,358	\$109,684	\$111,036	\$112,415	\$113,821	\$113,821
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$386,045	\$390,546	\$395,138	\$399,821	\$404,598	\$409,470	\$414,440	\$419,509	\$424,680	\$429,954	\$435,333	

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Rodrigo Knolls Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses										
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Rodrigo (Gallons)	0	0	0	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	57,232,000	57,232,000	57,232,000	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500
Status Quo Capital Costs (Financed with BAN)	\$120,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$127,872	\$90,032	\$280,032	\$500,000	\$470,000	\$400,000	\$350,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$90,032	\$30,032	\$250,000	\$470,000	\$400,000	\$350,000	\$300,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$53,115
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$675,250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$22,676	\$23,583	\$24,526	\$25,508	\$26,528	\$27,589	\$28,692	\$29,840	\$31,034	\$32,275	\$33,566
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$37,840	\$60,000	\$30,032	\$52,676	\$93,583	\$74,526	\$75,508	\$118,505	\$71,245	\$74,095	\$77,059	\$80,141	\$83,347	\$86,681
Status Quo System Operating Costs														
Routine Capital Improvements (Not Financed)	\$22,533	\$33,000	\$35,000	\$35,700	\$36,414	\$37,412	\$37,885	\$37,885	\$38,643	\$39,416	\$40,204	\$41,008	\$41,828	\$42,665
Liability Insurance	\$0	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	\$8,045	\$8,206
Personal Services: Sewer Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	\$7,171	\$7,314
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	\$475	\$485
Administration: System Operator	\$108,350	\$106,000	\$108,350	\$110,517	\$112,727	\$114,982	\$117,282	\$119,627	\$122,020	\$124,460	\$126,949	\$129,488	\$132,078	\$134,720
Chemicals/Utilities	\$122,908	\$179,850	\$182,500	\$186,150	\$189,873	\$193,670	\$197,544	\$201,495	\$205,525	\$209,635	\$213,828	\$218,104	\$222,466	\$226,916
Contingency	\$0	\$11,335	\$13,370	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$1,500	\$900	\$7,500	\$7,050	\$6,000	\$5,250	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$48,321	\$46,575	\$44,759	\$42,870	\$40,906	\$38,863
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$4.59	\$4.68	\$4.78	\$4.87	\$4.97	\$5.07	\$5.17	\$5.27	\$5.38	\$5.49	\$5.60
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$10,555	\$10,766	\$10,981	\$11,201	\$11,425	\$11,653	\$11,886	\$12,124	\$12,367	\$12,614	\$12,866
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$27,010	\$26,103	\$25,160	\$24,179	\$23,158	\$22,097	\$20,994	\$19,846	\$18,652	\$17,411	\$16,120
TOTAL OPERATING AND INTEREST COSTS:	\$259,389	\$343,500	\$350,920	\$405,562	\$411,325	\$416,865	\$422,273	\$427,302	\$432,755	\$438,252	\$443,792	\$449,373	\$454,994	\$460,654
TOTAL ANNUAL EXPENSES:	\$297,229	\$403,500	\$380,952	\$458,238	\$504,909	\$491,392	\$497,781	\$595,807	\$549,000	\$556,847	\$564,850	\$573,014	\$581,341	\$589,835
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400
Invoiced Water System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100
Consumption Charge/1,000 Gallons: In Village	\$6.18	\$6.18	\$6.18	\$6.81	\$6.91	\$7.00	\$7.09	\$8.02	\$8.03	\$8.11	\$8.19	\$8.28	\$8.37	\$8.45
Consumption Charge/1,000 Gallons: Outside Village	\$6.18	\$6.18	\$6.18	\$6.81	\$6.91	\$7.00	\$7.09	\$8.02	\$8.03	\$8.11	\$8.19	\$8.28	\$8.37	\$8.45
Consumption Charge per Average Household: In Village	\$791.04	\$791.04	\$791.04	\$872.01	\$884.40	\$896.31	\$907.94	\$1,026.26	\$1,027.23	\$1,037.98	\$1,048.81	\$1,059.74	\$1,070.75	\$1,081.84
Consumption Charge per Average Household: Outside Village	\$791.04	\$791.04	\$791.04	\$872.01	\$884.40	\$896.31	\$907.94	\$1,026.26	\$1,027.23	\$1,037.98	\$1,048.81	\$1,059.74	\$1,070.75	\$1,081.84
Consumption Billing Revenues: In Village	\$336,009	\$336,009	\$336,009	\$370,401	\$375,666	\$380,725	\$385,664	\$435,922	\$436,336	\$440,899	\$445,502	\$450,143	\$454,821	\$459,533
Consumption Billing Revenues: Outside Village	\$17,685	\$17,685	\$17,685	\$35,160	\$35,660	\$36,140	\$36,609	\$41,380	\$41,419	\$41,852	\$42,289	\$42,730	\$43,174	\$43,621
Other Revenues	-\$94,305	-\$10,194	-\$2,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$259,389	\$343,500	\$350,920	\$405,562	\$411,325	\$416,865	\$422,273	\$427,302	\$432,755	\$438,252	\$443,792	\$449,373	\$454,994	\$460,654
				0.50% Annual Escalation										
Total Assessed Property Value of Current System**	\$299,269,381	\$301,051,744	\$301,452,039	\$302,959,299	\$304,474,096	\$305,996,466	\$307,526,449	\$309,064,081	\$310,609,401	\$312,162,448	\$313,723,260	\$315,291,877	\$316,868,336	\$318,452,678
Total Estimated Assessed Property Value of Expansion Area***	\$0	\$0	\$0	\$7,236,000	\$7,272,180	\$7,308,541	\$7,345,084	\$7,381,809	\$7,418,718	\$7,455,812	\$7,493,091	\$7,530,556	\$7,568,209	\$7,606,050
Total Estimated Assessed Property Value with Expansion Area	\$299,269,381	\$301,051,744	\$301,452,039	\$310,195,299	\$311,746,276	\$313,305,007	\$314,871,532	\$316,445,890	\$318,028,119	\$319,618,260	\$321,216,351	\$322,822,433	\$324,436,545	\$326,058,728
Sewer Capital Assessment	\$0.000127000	\$0.000200000	\$0.000099626	\$0.000169816	\$0.000300190	\$0.000237872	\$0.000239804	\$0.000374487	\$0.000224022	\$0.000231823	\$0.000239897	\$0.000248251	\$0.000256897	\$0.000265844
Average Assessed Household Value	\$400,000	\$400,000	\$400,000	\$402,000	\$404,010	\$406,030	\$408,060	\$410,101	\$412,151	\$414,212	\$416,283	\$418,364	\$420,456	\$422,558
Average Household Sewer Capital Assessment	\$50.80	\$80.00	\$39.85	\$68.27	\$121.28	\$96.58	\$97.85	\$153.58	\$92.33	\$96.02	\$99.86	\$103.86	\$108.01	\$112.33
Sewer Capital Assessment Revenue	\$38,007	\$60,210	\$30,032	\$52,676	\$93,583	\$74,526	\$75,508	\$118,505	\$71,245	\$74,095	\$77,059	\$80,141	\$83,347	\$86,681
TOTAL REVENUES:	297,396	403,710	380,952	458,238	504,909	491,392	497,781	595,807	549,000	556,847	564,850	573,014	581,341	589,835
Average Charge/Household Including SCA : In Village:	\$841.84	\$871.04	\$830.89	\$940.27	\$1,005.68	\$992.89	\$1,005.79	\$1,179.84	\$1,119.56	\$1,134.00	\$1,148.68	\$1,163.60	\$1,178.76	\$1,194.18
Average Charge/Household Including SCA: Outside Village:	\$841.84	\$871.04	\$830.89	\$940.27	\$1,005.68	\$992.89	\$1,005.79	\$1,179.84	\$1,119.56	\$1,134.00	\$1,148.68	\$1,163.60	\$1,178.76	\$1,194.18

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes 18 Households Opt to Hook-In to System

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Rodrigo Knolls Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Rodrigo (Gallons)	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500	2,299,500
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500	59,531,500
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	\$134,527
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$34,909	\$36,305	\$37,757	\$39,268	\$40,838	\$42,472	\$44,171	\$45,938	\$47,775	\$47,775
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$90,148	\$93,754	\$97,504	\$101,404	\$155,833	\$162,066	\$168,549	\$175,291	\$182,302	\$182,302
Status Quo System Operating Costs										
Routine Capital Improvements (Not Financed)	\$43,518	\$44,388	\$45,276	\$46,182	\$47,105	\$48,047	\$49,008	\$49,988	\$50,988	\$50,988
Liability Insurance	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Sewer Clerk	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$137,414	\$140,162	\$142,966	\$145,825	\$148,741	\$151,716	\$154,750	\$157,845	\$161,002	\$161,002
Chemicals/Utilities	\$231,454	\$236,083	\$240,805	\$245,621	\$250,533	\$255,544	\$260,655	\$265,868	\$271,185	\$271,185
Contingency	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$36,738	\$34,529	\$32,231	\$29,841	\$8,355	\$82,755	\$77,972	\$72,997	\$67,822	\$67,822
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$5.71	\$5.82	\$5.94	\$6.06	\$6.18	\$6.30	\$6.43	\$6.56	\$6.69	\$6.69
Incremental Expansion Area Operating Costs	\$13,123	\$13,386	\$13,654	\$13,927	\$14,205	\$14,489	\$14,779	\$15,075	\$15,376	\$15,376
Incremental Expansion Area Bond Interest	\$14,777	\$13,381	\$11,929	\$10,418	\$8,848	\$7,214	\$5,515	\$3,749	\$1,911	\$1,911
TOTAL OPERATING AND INTEREST COSTS:	\$508,350	\$513,581	\$518,844	\$524,138	\$589,459	\$592,791	\$596,065	\$599,274	\$602,413	\$602,413
TOTAL ANNUAL EXPENSES:	\$598,498	\$607,335	\$616,348	\$625,542	\$745,292	\$754,857	\$764,614	\$774,565	\$784,716	\$784,716
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400
Invoiced Water System Consumption: Outside Village (Gallons)*	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100	5,161,100
Consumption Charge/1,000 Gallons: In Village	\$8.54	\$8.63	\$8.72	\$8.80	\$9.90	\$9.96	\$10.01	\$10.07	\$10.12	\$8.50
Consumption Charge/1,000 Gallons: Outside Village	\$8.54	\$8.63	\$8.72	\$8.80	\$9.90	\$9.96	\$10.01	\$10.07	\$10.12	\$8.50
Consumption Charge per Average Household: In Village	\$1,093.01	\$1,104.26	\$1,115.58	\$1,126.96	\$1,267.41	\$1,274.57	\$1,281.61	\$1,288.51	\$1,295.26	\$1,088.02
Consumption Charge per Average Household: Outside Village	\$1,093.01	\$1,104.26	\$1,115.58	\$1,126.96	\$1,267.41	\$1,274.57	\$1,281.61	\$1,288.51	\$1,295.26	\$1,088.02
Consumption Billing Revenues: In Village	\$464,279	\$469,056	\$473,863	\$478,697	\$538,356	\$541,399	\$544,389	\$547,320	\$550,187	\$550,187
Consumption Billing Revenues: Outside Village	\$44,072	\$44,525	\$44,981	\$45,440	\$51,103	\$51,392	\$51,676	\$51,954	\$52,226	\$52,226
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$508,350	\$513,581	\$518,844	\$524,138	\$589,459	\$592,791	\$596,065	\$599,274	\$602,413	\$602,413
Total Assessed Property Value of Current System**	\$320,044,941	\$321,645,166	\$323,253,392	\$324,869,659	\$326,494,007	\$328,126,477	\$329,767,109	\$331,415,945	\$333,073,025	\$333,073,025
Total Estimated Assessed Property Value of Expansion Area***	\$7,644,080	\$7,682,301	\$7,720,712	\$7,759,316	\$7,798,112	\$7,837,103	\$7,876,288	\$7,915,670	\$7,955,248	\$7,955,248
Total Estimated Assessed Property Value with Expansion Area	\$327,689,021	\$329,327,467	\$330,974,104	\$332,628,974	\$334,292,119	\$335,963,580	\$337,643,398	\$339,331,615	\$341,028,273	\$341,028,273
Sewer Capital Assessment	\$0.000275102	\$0.000284683	\$0.000294597	\$0.000304857	\$0.000466158	\$0.000482392	\$0.000499192	\$0.000516577	\$0.000534567	\$0.000534567
Average Assessed Household Value	\$424,671	\$426,794	\$428,928	\$431,073	\$433,228	\$435,395	\$437,572	\$439,759	\$441,958	\$441,958
Average Household Sewer Capital Assessment	\$116.83	\$121.50	\$126.36	\$131.42	\$201.95	\$210.03	\$218.43	\$227.17	\$236.26	\$137.00
Sewer Capital Assessment Revenue	\$90,148	\$93,754	\$97,504	\$101,404	\$155,833	\$162,066	\$168,549	\$175,291	\$182,302	\$182,302
TOTAL REVENUES:	598,498	607,335	616,348	625,542	745,292	754,857	764,614	774,565	784,716	784,716
Average Charge/Household Including SCA : In Village:	\$1,209.84	\$1,225.76	\$1,241.94	\$1,258.38	\$1,469.36	\$1,484.60	\$1,500.04	\$1,515.68	\$1,531.52	\$1,225.02
Average Charge/Household Including SCA: Outside Village:	\$1,209.84	\$1,225.76	\$1,241.94	\$1,258.38	\$1,469.36	\$1,484.60	\$1,500.04	\$1,515.68	\$1,531.52	\$1,225.02

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes 18 Households Opt to Hook-In to System

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household

Rate Study: Water System with Horseshoe Expansion

Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses									
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	
Total Expansion Area Water Consumption: Horseshoe (Gallons)	0	0	0	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	
TOTAL CONSUMPTION:	64,495,500	64,495,500	64,495,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	
Status Quo Capital Costs (Financed with BAN)	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Outstanding BAN Balance Subject to BAN Interest	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Ending Balance of BAN	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0	
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990	
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$2,706,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$90,872	\$94,507	\$98,287	\$102,219	\$106,308	\$110,560	\$114,982	\$119,582	\$124,365	
BAN AND DEBT PRINCIPAL :	\$0	\$0	\$80,000	\$90,872	\$94,507	\$138,585	\$144,129	\$149,894	\$155,890	\$162,125	\$168,610	\$175,355	
Status Quo System Operating Costs													
Routine Capital Improvements (Not Financed)	\$11,577	\$30,000	\$29,600	\$54,057	\$65,000	\$40,000	\$55,000	\$85,000	\$50,000	\$51,000	\$52,020	\$53,060	
Liability Insurance	\$4,000	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	
Personal Services: Water Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	
Administration: System Operator	\$61,860	\$55,000	\$61,500	\$62,730	\$63,985	\$65,264	\$66,570	\$67,901	\$69,259	\$70,644	\$72,057	\$73,498	
Chemicals/Testing	\$13,263	\$26,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	
Utilities/Supplies	\$25,642	\$35,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	
Contingency	\$0	\$50,185	\$44,300	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$1,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$48,000	\$46,388	\$44,712	\$42,968	\$41,155	\$39,269	\$37,308	
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$1.95	\$1.99	\$2.03	\$2.07	\$2.11	\$2.15	\$2.20	\$2.24	\$2.28	
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$27,616	\$28,168	\$28,732	\$29,306	\$29,892	\$30,490	\$31,100	\$31,722	\$32,356	
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$108,240	\$104,605	\$100,825	\$96,893	\$92,805	\$88,552	\$84,130	\$79,531	\$74,747	
TOTAL OPERATING AND INTEREST COSTS:	\$121,940	\$208,000	\$208,000	\$351,973	\$362,574	\$385,153	\$398,037	\$425,767	\$388,336	\$386,736	\$384,980	\$383,060	
TOTAL ANNUAL EXPENSES:	\$121,940	\$208,000	\$288,000	\$442,845	\$457,081	\$523,739	\$542,165	\$575,661	\$544,226	\$548,862	\$553,591	\$558,415	
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	
Consumption Charge/1,000 Gallons: In Village**	\$2.99	\$2.99	\$2.99	\$4.43	\$4.57	\$5.24	\$5.43	\$5.76	\$5.45	\$5.49	\$5.54	\$5.59	
Consumption Charge/1,000 Gallons: Outside Village**	\$5.98	\$5.98	\$5.98	\$8.86	\$9.15	\$10.48	\$10.85	\$11.52	\$10.89	\$10.99	\$11.08	\$11.18	
Consumption Charge per Average Household: In Village	\$382.72	\$382.72	\$382.72	\$567.33	\$585.57	\$670.96	\$694.57	\$737.48	\$697.21	\$703.15	\$709.21	\$715.39	
Consumption Charge per Average Household: Outside Village	\$765.44	\$765.44	\$765.44	\$1,134.66	\$1,171.14	\$1,341.93	\$1,389.14	\$1,474.96	\$1,394.42	\$1,406.30	\$1,418.41	\$1,430.77	
Consumption Billing Revenues: In Village	\$171,629	\$171,629	\$171,629	\$254,416	\$262,595	\$300,890	\$311,476	\$330,719	\$312,660	\$315,323	\$318,040	\$320,811	
Consumption Billing Revenues: Outside Village	\$42,425	\$42,425	\$42,425	\$188,429	\$194,486	\$222,849	\$230,689	\$244,941	\$231,566	\$233,539	\$235,551	\$237,603	
Other Revenues	-\$92,114	-\$6,054	\$73,946	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL ANNUAL REVENUES:	\$121,940	\$208,000	\$288,000	\$442,845	\$457,081	\$523,739	\$542,165	\$575,661	\$544,226	\$548,862	\$553,591	\$558,415	

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Water System with Horseshoe Expansion
Prepared By: R.S. Lynch & Company

<i>Village Fiscal Year: June 1st-May 31st</i>	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Total Expansion Area Water Consumption: Horseshoe (Gallons)	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000	14,162,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500	78,657,500
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$53,030	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	\$78,497
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$129,339	\$134,513	\$139,894	\$145,489	\$151,309	\$157,361	\$163,656	\$170,202	\$177,010	\$184,090	\$191,454	\$191,454
BAN AND DEBT PRINCIPAL :	\$182,369	\$189,664	\$197,250	\$205,140	\$213,346	\$221,880	\$230,755	\$239,985	\$249,585	\$259,568	\$269,951	\$269,951
Status Quo System Operating Costs												
Routine Capital Improvements (Not Financed)	\$54,122	\$55,204	\$56,308	\$57,434	\$58,583	\$59,755	\$60,950	\$62,169	\$63,412	\$64,680	\$65,974	\$65,974
Liability Insurance	\$8,045	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Water Clerk	\$7,171	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$475	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$74,968	\$76,468	\$77,997	\$79,557	\$81,148	\$82,771	\$84,426	\$86,115	\$87,837	\$89,594	\$91,386	\$91,386
Chemicals/Testing	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Utilities/Supplies	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Contingency	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$35,269	\$33,147	\$30,941	\$28,647	\$26,261	\$23,780	\$21,199	\$18,515	\$15,723	\$12,821	\$9,801	\$9,801
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$2.33	\$2.38	\$2.42	\$2.47	\$2.52	\$2.57	\$2.62	\$2.68	\$2.73	\$2.79	\$2.84	\$2.84
Incremental Expansion Area Operating Costs	\$33,004	\$33,664	\$34,337	\$35,024	\$35,724	\$36,439	\$37,167	\$37,911	\$38,669	\$39,442	\$40,231	\$40,231
Incremental Expansion Area Bond Interest	\$69,773	\$64,599	\$59,219	\$53,623	\$47,803	\$41,751	\$35,456	\$28,910	\$22,102	\$15,022	\$7,658	\$7,658
TOTAL OPERATING AND INTEREST COSTS:	\$380,966	\$378,689	\$376,222	\$373,553	\$370,673	\$367,571	\$364,237	\$360,658	\$356,824	\$352,720	\$348,335	\$348,335
TOTAL ANNUAL EXPENSES:	\$563,335	\$568,353	\$573,472	\$578,693	\$584,019	\$589,451	\$594,992	\$600,643	\$606,408	\$612,288	\$618,286	\$618,286
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995
Invoiced Water System Consumption: Outside Village (Gallons)*	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505	21,256,505
Consumption Charge/1,000 Gallons: In Village**	\$5.64	\$5.69	\$5.74	\$5.79	\$5.85	\$5.90	\$5.96	\$6.01	\$6.07	\$6.13	\$6.19	\$5.62
Consumption Charge/1,000 Gallons: Outside Village**	\$11.28	\$11.38	\$11.48	\$11.58	\$11.69	\$11.80	\$11.91	\$12.02	\$12.14	\$12.26	\$12.38	\$11.25
Consumption Charge per Average Household: In Village	\$721.69	\$728.12	\$734.68	\$741.36	\$748.19	\$755.15	\$762.25	\$769.49	\$776.87	\$784.40	\$792.09	\$719.76
Consumption Charge per Average Household: Outside Village	\$1,443.38	\$1,456.24	\$1,469.35	\$1,482.73	\$1,496.38	\$1,510.29	\$1,524.49	\$1,538.97	\$1,553.74	\$1,568.81	\$1,584.17	\$1,439.51
Consumption Billing Revenues: In Village	\$323,638	\$326,521	\$329,462	\$332,462	\$335,521	\$338,642	\$341,825	\$345,072	\$348,384	\$351,762	\$355,208	\$355,208
Consumption Billing Revenues: Outside Village	\$239,697	\$241,832	\$244,010	\$246,232	\$248,498	\$250,809	\$253,167	\$255,571	\$258,024	\$260,526	\$263,078	\$263,078
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$563,335	\$568,353	\$573,472	\$578,693	\$584,019	\$589,451	\$594,992	\$600,643	\$606,408	\$612,288	\$618,286	\$618,286

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Horseshoe Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses										
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Horseshoe (Gallons)	0	0	0	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	57,232,000	57,232,000	57,232,000	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750
Status Quo Capital Costs (Financed with BAN)	\$120,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$127,872	\$90,032	\$280,032	\$500,000	\$470,000	\$400,000	\$350,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$90,032	\$30,032	\$250,000	\$470,000	\$400,000	\$350,000	\$300,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$53,115
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$2,353,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$79,031	\$82,193	\$85,480	\$88,899	\$92,455	\$96,154	\$100,000	\$104,000	\$108,160	\$112,486	\$116,986
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$37,840	\$60,000	\$30,032	\$109,031	\$152,193	\$135,480	\$138,899	\$184,433	\$139,810	\$145,402	\$151,218	\$157,267	\$163,558	\$170,100
Status Quo System Operating Costs														
Routine Capital Improvements (Not Financed)	\$22,533	\$33,000	\$35,000	\$35,700	\$36,414	\$37,412	\$37,885	\$37,885	\$38,643	\$39,416	\$40,204	\$41,008	\$41,828	\$42,665
Liability Insurance	\$0	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	\$8,045	\$8,206
Personal Services: Sewer Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	\$7,171	\$7,314
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	\$475	\$485
Administration: System Operator	\$108,350	\$106,000	\$108,350	\$110,517	\$112,727	\$114,982	\$117,282	\$119,627	\$122,020	\$124,460	\$126,949	\$129,488	\$132,078	\$134,720
Chemicals/Utilities	\$122,908	\$179,850	\$182,500	\$186,150	\$189,873	\$193,670	\$197,544	\$201,495	\$205,525	\$209,635	\$213,828	\$218,104	\$222,466	\$226,916
Contingency	\$0	\$11,335	\$13,370	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$1,500	\$900	\$7,500	\$7,050	\$6,000	\$5,250	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$48,321	\$46,575	\$44,759	\$42,870	\$40,906	\$38,863
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$4.59	\$4.68	\$4.78	\$4.87	\$4.97	\$5.07	\$5.17	\$5.27	\$5.38	\$5.49	\$5.60
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$33,423	\$34,092	\$34,774	\$35,469	\$36,178	\$36,902	\$37,640	\$38,393	\$39,161	\$39,944	\$40,743
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$94,136	\$90,975	\$87,687	\$84,268	\$80,712	\$77,014	\$73,167	\$69,168	\$65,008	\$60,681	\$56,182
TOTAL OPERATING AND INTEREST COSTS:	\$259,389	\$343,500	\$350,920	\$495,556	\$499,523	\$503,185	\$506,631	\$559,609	\$557,920	\$560,679	\$563,382	\$566,022	\$568,594	\$571,092
TOTAL ANNUAL EXPENSES:	\$297,229	\$403,500	\$380,952	\$604,587	\$651,716	\$638,665	\$645,530	\$744,042	\$697,730	\$706,082	\$714,600	\$723,289	\$732,152	\$741,192
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400
Invoiced Water System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350
Consumption Charge/1,000 Gallons: In Village	\$6.18	\$6.18	\$6.18	\$7.68	\$7.74	\$7.80	\$7.85	\$8.67	\$8.65	\$8.69	\$8.73	\$8.77	\$8.81	\$8.85
Consumption Charge/1,000 Gallons: Outside Village	\$6.18	\$6.18	\$6.18	\$7.68	\$7.74	\$7.80	\$7.85	\$8.67	\$8.65	\$8.69	\$8.73	\$8.77	\$8.81	\$8.85
Consumption Charge per Average Household: In Village	\$791.04	\$791.04	\$791.04	\$983.22	\$991.09	\$998.36	\$1,005.19	\$1,110.31	\$1,106.95	\$1,112.43	\$1,117.79	\$1,123.03	\$1,128.13	\$1,133.09
Consumption Charge per Average Household: Outside Village	\$791.04	\$791.04	\$791.04	\$983.22	\$991.09	\$998.36	\$1,005.19	\$1,110.31	\$1,106.95	\$1,112.43	\$1,117.79	\$1,123.03	\$1,128.13	\$1,133.09
Consumption Billing Revenues: In Village	\$336,009	\$336,009	\$336,009	\$417,641	\$420,984	\$424,071	\$426,974	\$471,623	\$470,199	\$472,525	\$474,803	\$477,028	\$479,196	\$481,301
Consumption Billing Revenues: Outside Village	\$17,685	\$17,685	\$17,685	\$77,915	\$78,539	\$79,115	\$79,656	\$87,986	\$87,720	\$88,154	\$88,579	\$88,994	\$89,399	\$89,792
Other Revenues	-\$94,305	-\$10,194	-\$2,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$259,389	\$343,500	\$350,920	\$495,556	\$499,523	\$503,185	\$506,631	\$559,609	\$557,920	\$560,679	\$563,382	\$566,022	\$568,594	\$571,092
				0.50% Annual Escalation										
Total Assessed Property Value of Current System**	\$299,269,381	\$301,051,744	\$301,452,039	\$302,959,299	\$304,474,096	\$305,996,466	\$307,526,449	\$309,064,081	\$310,609,401	\$312,162,448	\$313,723,260	\$315,291,877	\$316,868,336	\$318,452,678
Total Estimated Assessed Property Value of Expansion Area***	\$0	\$0	\$0	\$23,316,000	\$23,432,580	\$23,549,743	\$23,667,492	\$23,785,829	\$23,904,758	\$24,024,282	\$24,144,403	\$24,265,125	\$24,386,451	\$24,508,383
Total Estimated Assessed Property Value with Expansion Area	\$299,269,381	\$301,051,744	\$301,452,039	\$326,275,299	\$327,906,676	\$329,546,209	\$331,193,940	\$332,849,910	\$334,514,159	\$336,186,730	\$337,867,664	\$339,557,002	\$341,254,787	\$342,961,061
Sewer Capital Assessment	\$0.000127000	\$0.000200000	\$0.000099626	\$0.000334170	\$0.000464134	\$0.000411112	\$0.000419390	\$0.000554101	\$0.000417949	\$0.000432505	\$0.000447567	\$0.000463154	\$0.000479284	\$0.000495975
Average Assessed Household Value	\$400,000	\$400,000	\$400,000	\$402,000	\$404,010	\$406,030	\$408,060	\$410,101	\$412,151	\$414,212	\$416,283	\$418,364	\$420,456	\$422,558
Average Household Sewer Capital Assessment	\$50.80	\$80.00	\$39.85	\$134.34	\$187.51	\$166.92	\$171.14	\$227.24	\$172.26	\$179.15	\$186.31	\$193.77	\$201.52	\$209.58
Sewer Capital Assessment Revenue	\$38,007	\$60,210	\$30,032	\$109,031	\$152,193	\$135,480	\$138,899	\$184,433	\$139,810	\$145,402	\$151,218	\$157,267	\$163,558	\$170,100
TOTAL REVENUES:	297,396	403,710	380,952	604,587	651,716	638,665	645,530	744,042	697,730	706,082	714,600	723,289	732,152	741,192
Average Charge/Household Including SCA : In Village:	\$841.84	\$871.04	\$830.89	\$1,117.56	\$1,178.61	\$1,165.28	\$1,176.33	\$1,337.54	\$1,279.21	\$1,291.58	\$1,304.11	\$1,316.80	\$1,329.65	\$1,342.67
Average Charge/Household Including SCA: Outside Village:	\$841.84	\$871.04	\$830.89	\$1,117.56	\$1,178.61	\$1,165.28	\$1,176.33	\$1,337.54	\$1,279.21	\$1,291.58	\$1,304.11	\$1,316.80	\$1,329.65	\$1,342.67

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes 58 Households Opt to Hook-In to System

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Sewer System with Horseshoe Expansion
Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Horseshoe (Gallons)	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750	7,281,750
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750	64,513,750
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	\$134,527
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$121,665	\$126,532	\$131,593	\$136,857	\$142,331	\$148,024	\$153,945	\$160,103	\$166,507	\$166,507
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$176,904	\$183,980	\$191,340	\$198,993	\$257,325	\$267,618	\$278,323	\$289,456	\$301,034	\$301,034
Status Quo System Operating Costs										
Routine Capital Improvements (Not Financed)	\$43,518	\$44,388	\$45,276	\$46,182	\$47,105	\$48,047	\$49,008	\$49,988	\$50,988	\$50,988
Liability Insurance	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Sewer Clerk	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$137,414	\$140,162	\$142,966	\$145,825	\$148,741	\$151,716	\$154,750	\$157,845	\$161,002	\$161,002
Chemicals/Utilities	\$231,454	\$236,083	\$240,805	\$245,621	\$250,533	\$255,544	\$260,655	\$265,868	\$271,185	\$271,185
Contingency	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$36,738	\$34,529	\$32,231	\$29,841	\$27,359	\$24,825	\$22,291	\$19,772	\$17,272	\$17,272
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$5.71	\$5.82	\$5.94	\$6.06	\$6.18	\$6.30	\$6.43	\$6.56	\$6.69	\$6.69
Incremental Expansion Area Operating Costs	\$41,558	\$42,389	\$43,237	\$44,101	\$44,983	\$45,883	\$46,801	\$47,737	\$48,691	\$48,691
Incremental Expansion Area Bond Interest	\$51,502	\$46,636	\$41,574	\$36,311	\$30,836	\$25,143	\$19,222	\$13,064	\$6,660	\$6,660
TOTAL OPERATING AND INTEREST COSTS:	\$573,509	\$575,838	\$578,073	\$580,205	\$582,226	\$584,226	\$586,226	\$588,226	\$590,226	\$592,226
TOTAL ANNUAL EXPENSES:	\$750,413	\$759,819	\$769,412	\$779,198	\$789,551	\$799,732	\$809,920	\$820,116	\$830,312	\$840,512
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400
Invoiced Water System Consumption: Outside Village (Gallons)*	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350	10,143,350
Consumption Charge/1,000 Gallons: In Village	\$8.89	\$8.93	\$8.96	\$8.99	\$9.02	\$9.05	\$9.08	\$9.11	\$9.14	\$9.17
Consumption Charge/1,000 Gallons: Outside Village	\$8.89	\$8.93	\$8.96	\$8.99	\$9.02	\$9.05	\$9.08	\$9.11	\$9.14	\$9.17
Consumption Charge per Average Household: In Village	\$1,137.88	\$1,142.51	\$1,146.94	\$1,151.17	\$1,155.40	\$1,159.63	\$1,163.86	\$1,168.09	\$1,172.32	\$1,176.55
Consumption Charge per Average Household: Outside Village	\$1,137.88	\$1,142.51	\$1,146.94	\$1,151.17	\$1,155.40	\$1,159.63	\$1,163.86	\$1,168.09	\$1,172.32	\$1,176.55
Consumption Billing Revenues: In Village	\$483,338	\$485,301	\$487,184	\$488,980	\$490,796	\$492,621	\$494,456	\$496,291	\$498,136	\$499,991
Consumption Billing Revenues: Outside Village	\$90,172	\$90,538	\$90,889	\$91,224	\$91,549	\$91,874	\$92,199	\$92,524	\$92,849	\$93,174
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$573,509	\$575,838	\$578,073	\$580,205	\$582,226	\$584,226	\$586,226	\$588,226	\$590,226	\$592,226
Total Assessed Property Value of Current System**	\$320,044,941	\$321,645,166	\$323,253,392	\$324,869,619	\$326,494,846	\$328,126,477	\$329,767,109	\$331,415,945	\$333,073,025	\$334,738,105
Total Estimated Assessed Property Value of Expansion Area***	\$24,630,925	\$24,754,080	\$24,877,850	\$25,002,240	\$25,127,251	\$25,252,887	\$25,379,151	\$25,506,047	\$25,633,577	\$25,761,752
Total Estimated Assessed Property Value with Expansion Area	\$344,675,866	\$346,399,246	\$348,131,242	\$349,871,859	\$351,622,097	\$353,379,364	\$355,146,260	\$356,921,992	\$358,706,602	\$360,500,000
Sewer Capital Assessment	\$0.000513248	\$0.000511122	\$0.000509619	\$0.000508116	\$0.000506613	\$0.000505110	\$0.000503607	\$0.000502104	\$0.000500601	\$0.000499098
Average Assessed Household Value	\$424,671	\$426,794	\$428,928	\$431,073	\$433,228	\$435,395	\$437,572	\$439,759	\$441,958	\$444,167
Average Household Sewer Capital Assessment	\$217.96	\$226.68	\$235.75	\$245.18	\$254.91	\$264.91	\$275.17	\$285.68	\$296.44	\$307.44
Sewer Capital Assessment Revenue	\$176,904	\$183,980	\$191,340	\$198,993	\$207,325	\$216,325	\$225,991	\$235,323	\$245,323	\$255,991
TOTAL REVENUES:	750,413	759,819	769,412	779,198	789,551	799,732	809,920	820,116	830,312	840,512
Average Charge/Household Including SCA : In Village:	\$1,355.85	\$1,369.19	\$1,382.69	\$1,396.35	\$1,409.27	\$1,422.32	\$1,435.50	\$1,448.81	\$1,462.26	\$1,475.83
Average Charge/Household Including SCA: Outside Village:	\$1,355.85	\$1,369.19	\$1,382.69	\$1,396.35	\$1,409.27	\$1,422.32	\$1,435.50	\$1,448.81	\$1,462.26	\$1,475.83

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes 58 Households Opt to Hook-In to System

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household

Rate Study: Water System with Infirmary Expansion

Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses									
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	
Total Expansion Area Water Consumption: Infirmary (Gallons)	0	0	0	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	
TOTAL CONSUMPTION:	64,495,500	64,495,500	64,495,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	
Status Quo Capital Costs (Financed with BAN)	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Outstanding BAN Balance Subject to BAN Interest	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Ending Balance of BAN	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0	
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990	
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
BAN AND DEBT PRINCIPAL :	\$0	\$0	\$80,000	\$0	\$0	\$40,298	\$41,910	\$43,586	\$45,330	\$47,143	\$49,029	\$50,990	
Status Quo System Operating Costs													
Routine Capital Improvements (Not Financed)	\$11,577	\$30,000	\$29,600	\$54,057	\$65,000	\$40,000	\$55,000	\$85,000	\$50,000	\$51,000	\$52,020	\$53,060	
Liability Insurance	\$4,000	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	
Personal Services: Water Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	
Administration: System Operator	\$61,860	\$55,000	\$61,500	\$62,730	\$63,985	\$65,264	\$66,570	\$67,901	\$69,259	\$70,644	\$72,057	\$73,498	
Chemicals/Testing	\$13,263	\$26,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	
Utilities/Supplies	\$25,642	\$35,000	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473	\$33,122	\$33,785	\$34,461	\$35,150	\$35,853	
Contingency	\$0	\$50,185	\$44,300	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$1,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$48,000	\$46,388	\$44,712	\$42,968	\$41,155	\$39,269	\$37,308	
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$1.95	\$1.99	\$2.03	\$2.07	\$2.11	\$2.15	\$2.20	\$2.24	\$2.28	
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$569	\$581	\$592	\$604	\$616	\$629	\$641	\$654	\$667	
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL OPERATING AND INTEREST COSTS:	\$121,940	\$208,000	\$208,000	\$216,686	\$230,382	\$256,189	\$272,441	\$303,686	\$269,922	\$272,148	\$274,382	\$276,623	
TOTAL ANNUAL EXPENSES:	\$121,940	\$208,000	\$288,000	\$216,686	\$230,382	\$296,488	\$314,351	\$347,272	\$315,252	\$319,291	\$323,411	\$327,613	
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	
Invoiced Water System Consumption: Outside Village (Gallons)*	7,094,505	7,094,505	7,094,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	
Consumption Charge/1,000 Gallons: In Village**	\$2.99	\$2.99	\$2.99	\$3.00	\$3.19	\$4.11	\$4.36	\$4.81	\$4.37	\$4.42	\$4.48	\$4.54	
Consumption Charge/1,000 Gallons: Outside Village**	\$5.98	\$5.98	\$5.98	\$6.00	\$6.38	\$8.22	\$8.71	\$9.62	\$8.74	\$8.85	\$8.96	\$9.08	
Consumption Charge per Average Household: In Village	\$382.72	\$382.72	\$382.72	\$384.29	\$408.58	\$525.82	\$557.50	\$615.88	\$559.10	\$566.26	\$573.57	\$581.02	
Consumption Charge per Average Household: Outside Village	\$765.44	\$765.44	\$765.44	\$768.58	\$817.16	\$1,051.64	\$1,115.00	\$1,231.77	\$1,118.19	\$1,132.52	\$1,147.13	\$1,162.04	
Consumption Billing Revenues: In Village	\$171,629	\$171,629	\$171,629	\$172,334	\$183,226	\$235,801	\$250,008	\$276,191	\$250,724	\$253,937	\$257,213	\$260,555	
Consumption Billing Revenues: Outside Village	\$42,425	\$42,425	\$42,425	\$44,353	\$47,156	\$60,687	\$64,343	\$71,082	\$64,528	\$65,354	\$66,198	\$67,058	
Other Revenues	-\$92,114	-\$6,054	\$73,946	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL ANNUAL REVENUES:	\$121,940	\$208,000	\$288,000	\$216,686	\$230,382	\$296,488	\$314,351	\$347,272	\$315,252	\$319,291	\$323,411	\$327,613	

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Water System with Infirmary Expansion
Prepared By: R.S. Lynch & Company

<i>Village Fiscal Year: June 1st-May 31st</i>	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced Water System Consumption: Status Quo (Gallons)	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500	64,495,500
Total Expansion Area Water Consumption: Infirmary (Gallons)	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500	64,787,500
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal Amount to Annual Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$53,030	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	\$78,497
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BAN AND DEBT PRINCIPAL :	\$53,030	\$55,151	\$57,357	\$59,651	\$62,037	\$64,519	\$67,099	\$69,783	\$72,575	\$75,478	\$78,497	\$78,497
Status Quo System Operating Costs												
Routine Capital Improvements (Not Financed)	\$54,122	\$55,204	\$56,308	\$57,434	\$58,583	\$59,755	\$60,950	\$62,169	\$63,412	\$64,680	\$65,974	\$65,974
Liability Insurance	\$8,045	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Water Clerk	\$7,171	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$475	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$74,968	\$76,468	\$77,997	\$79,557	\$81,148	\$82,771	\$84,426	\$86,115	\$87,837	\$89,594	\$91,386	\$91,386
Chemicals/Testing	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Utilities/Supplies	\$36,570	\$37,301	\$38,047	\$38,808	\$39,584	\$40,376	\$41,184	\$42,007	\$42,847	\$43,704	\$44,578	\$44,578
Contingency	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$35,269	\$33,147	\$30,941	\$28,647	\$26,261	\$23,780	\$21,199	\$18,515	\$15,723	\$12,821	\$9,801	\$9,801
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$2.33	\$2.38	\$2.42	\$2.47	\$2.52	\$2.57	\$2.62	\$2.68	\$2.73	\$2.79	\$2.84	\$2.84
Incremental Expansion Area Operating Costs	\$680	\$694	\$708	\$722	\$737	\$751	\$766	\$782	\$797	\$813	\$830	\$830
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL OPERATING AND INTEREST COSTS:	\$278,870	\$281,121	\$283,374	\$285,628	\$287,882	\$290,133	\$292,379	\$294,619	\$296,850	\$299,069	\$301,275	\$301,275
TOTAL ANNUAL EXPENSES:	\$331,899	\$336,271	\$340,731	\$345,279	\$349,919	\$354,652	\$359,479	\$364,402	\$369,424	\$374,547	\$379,772	\$379,772
Invoiced Water System Consumption: In Village (Gallons)*	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995	57,400,995
Invoiced Water System Consumption: Outside Village (Gallons)*	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505	7,386,505
Consumption Charge/1,000 Gallons: In Village**	\$4.60	\$4.66	\$4.72	\$4.78	\$4.85	\$4.91	\$4.98	\$5.05	\$5.12	\$5.19	\$5.26	\$4.57
Consumption Charge/1,000 Gallons: Outside Village**	\$9.20	\$9.32	\$9.44	\$9.57	\$9.70	\$9.83	\$9.96	\$10.10	\$10.24	\$10.38	\$10.52	\$9.14
Consumption Charge per Average Household: In Village	\$588.62	\$596.37	\$604.28	\$612.35	\$620.58	\$628.97	\$637.53	\$646.26	\$655.17	\$664.26	\$673.52	\$585.00
Consumption Charge per Average Household: Outside Village	\$1,177.24	\$1,192.75	\$1,208.57	\$1,224.70	\$1,241.16	\$1,257.94	\$1,275.06	\$1,292.53	\$1,310.34	\$1,328.51	\$1,347.04	\$1,169.99
Consumption Billing Revenues: In Village	\$263,964	\$267,441	\$270,988	\$274,606	\$278,296	\$282,059	\$285,898	\$289,814	\$293,808	\$297,882	\$302,038	\$302,038
Consumption Billing Revenues: Outside Village	\$67,935	\$68,830	\$69,743	\$70,674	\$71,624	\$72,592	\$73,580	\$74,588	\$75,616	\$76,664	\$77,734	\$77,734
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES:	\$331,899	\$336,271	\$340,731	\$345,279	\$349,919	\$354,652	\$359,479	\$364,402	\$369,424	\$374,547	\$379,772	\$379,772

*Assumes 11% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Assumes 100% of Expenses Paid Through Consumption Charges and Town Residents Pay Twice the Village Rate

VILLAGE OF MILLBROOK, NY
 Impact of Expansions & Improvements on Cost to Avg. Household
 Rate Study: Sewer System with Infirmiry Expansion
 Prepared By: R.S. Lynch & Company

Village Fiscal Year: June 1st-May 31st	Approximate Past Revenues & Expenses			Projected Future Revenues & Expenses										
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000
Total Expansion Area Sewer Consumption: Infirmiry (Gallons)	0	0	0	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750
TOTAL CONSUMPTION:	57,232,000	57,232,000	57,232,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000
Status Quo Capital Costs (Financed with BAN)	\$120,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$127,872	\$90,032	\$280,032	\$500,000	\$470,000	\$400,000	\$350,000	\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$90,032	\$30,032	\$250,000	\$470,000	\$400,000	\$350,000	\$300,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$51,072
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$37,840	\$60,000	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$91,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$51,072
Status Quo System Operating Costs														
Routine Capital Improvements (Not Financed)	\$22,533	\$33,000	\$35,000	\$35,700	\$36,414	\$37,412	\$37,885	\$37,885	\$38,643	\$39,416	\$40,204	\$41,008	\$41,828	\$41,828
Liability Insurance	\$0	\$6,000	\$6,600	\$6,732	\$6,867	\$7,004	\$7,144	\$7,287	\$7,433	\$7,581	\$7,733	\$7,888	\$8,045	\$8,045
Personal Services: Sewer Clerk	\$5,200	\$5,400	\$3,900	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495	\$6,624	\$6,757	\$6,892	\$7,030	\$7,171	\$7,171
Employee Benefits	\$398	\$415	\$300	\$398	\$406	\$414	\$422	\$431	\$439	\$448	\$457	\$466	\$475	\$475
Administration: System Operator	\$108,350	\$106,000	\$108,350	\$110,517	\$112,727	\$114,982	\$117,282	\$119,627	\$122,020	\$124,460	\$126,949	\$129,488	\$132,078	\$132,078
Chemicals/Utilities	\$122,908	\$179,850	\$182,500	\$186,150	\$189,873	\$193,670	\$197,544	\$201,495	\$205,525	\$209,635	\$213,828	\$218,104	\$222,466	\$222,466
Contingency	\$0	\$11,335	\$13,370	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$1,500	\$900	\$7,500	\$7,050	\$6,000	\$5,250	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$48,321	\$46,575	\$44,759	\$42,870	\$40,906	\$40,906
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$0.00	\$0.00	\$0.00	\$4.59	\$4.68	\$4.78	\$4.87	\$4.97	\$5.07	\$5.17	\$5.27	\$5.38	\$5.49	\$5.49
Incremental Expansion Area Operating Costs	\$0	\$0	\$0	\$1,340	\$1,367	\$1,394	\$1,422	\$1,451	\$1,480	\$1,509	\$1,540	\$1,570	\$1,602	\$1,602
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL OPERATING AND INTEREST COSTS:	\$259,389	\$343,500	\$350,920	\$369,337	\$375,824	\$382,119	\$388,316	\$444,170	\$445,484	\$451,381	\$457,361	\$463,424	\$469,571	\$469,571
TOTAL ANNUAL EXPENSES:	\$297,229	\$403,500	\$380,952	\$399,337	\$445,824	\$432,119	\$438,316	\$536,147	\$489,140	\$496,784	\$504,580	\$512,532	\$520,643	\$520,643
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400
Invoiced Water System Consumption: Outside Village (Gallons)*	2,861,600	2,861,600	2,861,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600
Consumption Charge/1,000 Gallons: In Village	\$6.18	\$6.18	\$6.18	\$6.42	\$6.53	\$6.64	\$6.75	\$7.72	\$7.74	\$7.85	\$7.95	\$8.06	\$8.16	\$8.16
Consumption Charge/1,000 Gallons: Outside Village	\$6.18	\$6.18	\$6.18	\$6.42	\$6.53	\$6.64	\$6.75	\$7.72	\$7.74	\$7.85	\$7.95	\$8.06	\$8.16	\$8.16
Consumption Charge per Average Household: In Village	\$791.04	\$791.04	\$791.04	\$821.83	\$836.27	\$850.28	\$864.06	\$988.35	\$991.27	\$1,004.39	\$1,017.70	\$1,031.19	\$1,044.87	\$1,044.87
Consumption Charge per Average Household: Outside Village	\$791.04	\$791.04	\$791.04	\$821.83	\$836.27	\$850.28	\$864.06	\$988.35	\$991.27	\$1,004.39	\$1,017.70	\$1,031.19	\$1,044.87	\$1,044.87
Consumption Billing Revenues: In Village	\$336,009	\$336,009	\$336,009	\$349,089	\$355,220	\$361,170	\$367,028	\$419,819	\$421,062	\$426,635	\$432,288	\$438,018	\$443,828	\$443,828
Consumption Billing Revenues: Outside Village	\$17,685	\$17,685	\$17,685	\$20,248	\$20,604	\$20,949	\$21,288	\$24,350	\$24,422	\$24,746	\$25,074	\$25,406	\$25,743	\$25,743
Other Revenues	-\$94,305	-\$10,194	-\$2,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$259,389	\$343,500	\$350,920	\$369,337	\$375,824	\$382,119	\$388,316	\$444,170	\$445,484	\$451,381	\$457,361	\$463,424	\$469,571	\$469,571
				0.50%	Annual Escalation									
Total Assessed Property Value of Current System**	\$299,269,381	\$301,051,744	\$301,452,039	\$302,959,299	\$304,474,096	\$305,996,466	\$307,526,449	\$309,064,081	\$310,609,401	\$312,162,448	\$313,723,266	\$315,291,877	\$316,868,336	\$316,868,336
Total Estimated Assessed Property Value of Expansion Area***	\$0	\$0	\$0	\$2,000,000	\$2,010,000	\$2,020,050	\$2,030,150	\$2,040,301	\$2,050,503	\$2,060,755	\$2,071,059	\$2,081,414	\$2,091,821	\$2,091,821
Total Estimated Assessed Property Value with Expansion Area	\$299,269,381	\$301,051,744	\$301,452,039	\$304,959,299	\$306,484,096	\$308,016,516	\$309,556,599	\$311,104,382	\$312,659,904	\$314,223,203	\$315,794,319	\$317,373,291	\$318,960,157	\$318,960,157
Sewer Capital Assessment	\$0.000127000	\$0.000200000	\$0.000099626	\$0.000098374	\$0.000228397	\$0.000162329	\$0.000161521	\$0.000295647	\$0.000139629	\$0.000144491	\$0.000149523	\$0.000154731	\$0.000160119	\$0.000160119
Average Assessed Household Value	\$400,000	\$400,000	\$400,000	\$402,000	\$404,010	\$406,030	\$408,060	\$410,101	\$412,151	\$414,212	\$416,283	\$418,364	\$420,456	\$420,456
Average Household Sewer Capital Assessment	\$50.80	\$80.00	\$39.85	\$39.55	\$92.27	\$65.91	\$65.91	\$121.25	\$57.55	\$59.85	\$62.24	\$64.73	\$67.32	\$67.32
Sewer Capital Assessment Revenue	\$38,007	\$60,210	\$30,032	\$30,000	\$70,000	\$50,000	\$50,000	\$91,977	\$43,656	\$45,403	\$47,219	\$49,107	\$51,072	\$51,072
TOTAL REVENUES:	297,396	403,710	380,952	399,337	445,824	432,119	438,316	536,147	489,140	496,784	504,580	512,532	520,643	520,643
Average Charge/Household Including SCA : In Village:	\$841.84	\$871.04	\$830.89	\$861.38	\$928.54	\$916.19	\$929.98	\$1,109.59	\$1,048.82	\$1,064.24	\$1,079.94	\$1,095.93	\$1,112.19	\$1,112.19
Average Charge/Household Including SCA: Outside Village:	\$841.84	\$871.04	\$830.89	\$861.38	\$928.54	\$916.19	\$929.98	\$1,109.59	\$1,048.82	\$1,064.24	\$1,079.94	\$1,095.93	\$1,112.19	\$1,112.19

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes \$250/Square Foot (8,000 Square Feet)

VILLAGE OF MILLBROOK, NY
Impact of Expansions & Improvements on Cost to Avg. Household
Rate Study: Sewer System with Infirmiry Expansion
Prepared By: R.S. Lynch & Company

<i>Village Fiscal Year: June 1st-May 31st</i>	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	20 YR Average
Total Invoiced System Sewer Consumption: Status Quo (Gallons)	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	57,232,000	
Total Expansion Area Sewer Consumption: Infirmiry (Gallons)	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	292,000	
Average Annual Household Consumption (Gallons)	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	127,750	
TOTAL CONSUMPTION:	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	57,524,000	
Status Quo Capital Costs (Financed with BAN)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Allocation of BAN Principal to Sewer Capital Assessment (SCA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outstanding BAN Balance Subject to BAN Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance of BAN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0
BAN Balance Converted to Bond (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Capital Costs Bond Principal Payments (4%,20 Years)	\$53,115	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	
Expansion Capital Costs (Financed with Bond)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expansion Capital Cost Bond Principal Payments (4%,20 Years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ALLOCATION OF BAN AND DEBT PRINCIPAL TO SCA:	\$53,115	\$55,239	\$57,449	\$59,747	\$62,136	\$114,995	\$119,594	\$124,378	\$129,353	\$134,527	
Status Quo System Operating Costs											
Routine Capital Improvements (Not Financed)	\$42,665	\$43,518	\$44,388	\$45,276	\$46,182	\$47,105	\$48,047	\$49,008	\$49,988	\$50,988	\$50,988
Liability Insurance	\$8,206	\$8,370	\$8,538	\$8,709	\$8,883	\$9,060	\$9,242	\$9,426	\$9,615	\$9,807	\$9,807
Personal Services: Sewer Clerk	\$7,314	\$7,460	\$7,609	\$7,762	\$7,917	\$8,075	\$8,237	\$8,401	\$8,569	\$8,741	\$8,741
Employee Benefits	\$485	\$495	\$505	\$515	\$525	\$535	\$546	\$557	\$568	\$580	\$580
Administration: System Operator	\$134,720	\$137,414	\$140,162	\$142,966	\$145,825	\$148,741	\$151,716	\$154,750	\$157,845	\$161,002	\$161,002
Chemicals/Utilities	\$226,916	\$231,454	\$236,083	\$240,805	\$245,621	\$250,533	\$255,544	\$260,655	\$265,868	\$271,185	\$271,185
Contingency	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
BAN Interest (With BAN Interest of 1.5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Status Quo Bond Interest	\$38,863	\$36,738	\$34,529	\$32,231	\$29,841	\$27,355	\$24,755	\$22,097	\$19,377	\$16,597	\$16,597
Incremental Expansion Area Operating Costs (\$/1,000 Gallons)	\$5.60	\$5.71	\$5.82	\$5.94	\$6.06	\$6.18	\$6.30	\$6.43	\$6.56	\$6.69	\$6.69
Incremental Expansion Area Operating Costs	\$1,634	\$1,666	\$1,700	\$1,734	\$1,768	\$1,804	\$1,840	\$1,877	\$1,914	\$1,953	\$1,953
Incremental Expansion Area Bond Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL OPERATING AND INTEREST COSTS:	\$475,802	\$482,116	\$488,514	\$494,996	\$501,561	\$508,210	\$514,927	\$521,704	\$528,545	\$535,452	\$535,452
TOTAL ANNUAL EXPENSES:	\$528,916	\$537,355	\$545,963	\$554,742	\$563,698	\$572,805	\$582,025	\$591,353	\$600,796	\$610,355	\$610,355
Invoiced Water System Consumption: In Village (Gallons)*	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	54,370,400	
Invoiced Water System Consumption: Outside Village (Gallons)*	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	3,153,600	
Consumption Charge/1,000 Gallons: In Village	\$8.27	\$8.38	\$8.49	\$8.61	\$8.72	\$8.83	\$8.96	\$9.09	\$9.22	\$9.35	\$9.35
Consumption Charge/1,000 Gallons: Outside Village	\$8.27	\$8.38	\$8.49	\$8.61	\$8.72	\$8.83	\$8.96	\$9.09	\$9.22	\$9.35	\$9.35
Consumption Charge per Average Household: In Village	\$1,058.73	\$1,072.78	\$1,087.02	\$1,101.44	\$1,116.05	\$1,130.86	\$1,145.85	\$1,161.00	\$1,176.31	\$1,191.78	\$1,191.78
Consumption Charge per Average Household: Outside Village	\$1,058.73	\$1,072.78	\$1,087.02	\$1,101.44	\$1,116.05	\$1,130.86	\$1,145.85	\$1,161.00	\$1,176.31	\$1,191.78	\$1,191.78
Consumption Billing Revenues: In Village	\$449,717	\$455,685	\$461,732	\$467,859	\$474,064	\$480,351	\$486,718	\$493,165	\$499,692	\$506,299	\$506,299
Consumption Billing Revenues: Outside Village	\$26,085	\$26,431	\$26,781	\$27,137	\$27,497	\$27,861	\$28,228	\$28,598	\$28,971	\$29,347	\$29,347
Other Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL NON-TAX REVENUES:	\$475,802	\$482,116	\$488,514	\$494,996	\$501,561	\$508,210	\$514,927	\$521,704	\$528,545	\$535,452	\$535,452
Total Assessed Property Value of Current System**	\$318,452,678	\$320,044,941	\$321,645,166	\$323,253,392	\$324,869,659	\$326,494,007	\$328,126,477	\$329,767,109	\$331,415,945	\$333,073,025	\$333,073,025
Total Estimated Assessed Property Value of Expansion Area***	\$2,102,280	\$2,112,792	\$2,123,356	\$2,133,972	\$2,144,642	\$2,155,365	\$2,166,142	\$2,176,973	\$2,187,858	\$2,198,797	\$2,198,797
Total Estimated Assessed Property Value with Expansion Area	\$320,554,958	\$322,157,733	\$323,768,521	\$325,387,364	\$327,014,301	\$328,649,372	\$330,292,619	\$331,944,082	\$333,603,803	\$335,271,822	\$335,271,822
Sewer Capital Assessment	\$0.000165696	\$0.000171466	\$0.000177438	\$0.000183617	\$0.000190012	\$0.000196900	\$0.000204286	\$0.000212169	\$0.000220549	\$0.000229426	\$0.000229426
Average Assessed Household Value	\$422,558	\$424,671	\$426,794	\$428,928	\$431,073	\$433,228	\$435,395	\$437,572	\$439,759	\$441,958	\$441,958
Average Household Sewer Capital Assessment	\$70.02	\$72.82	\$75.73	\$78.76	\$81.91	\$85.19	\$88.60	\$92.13	\$95.79	\$99.58	\$99.58
Sewer Capital Assessment Revenue	\$53,115	\$55,239	\$57,449	\$59,747	\$62,136	\$64,625	\$67,218	\$69,916	\$72,719	\$75,627	\$75,627
TOTAL REVENUES:	\$528,916	\$537,355	\$545,963	\$554,742	\$563,698	\$572,805	\$582,025	\$591,353	\$600,796	\$610,355	\$610,355
Average Charge/Household Including SCA : In Village:	\$1,128.75	\$1,145.60	\$1,162.75	\$1,180.20	\$1,197.96	\$1,216.19	\$1,234.85	\$1,253.94	\$1,273.47	\$1,293.45	\$1,293.45
Average Charge/Household Including SCA: Outside Village:	\$1,128.75	\$1,145.60	\$1,162.75	\$1,180.20	\$1,197.96	\$1,216.19	\$1,234.85	\$1,253.94	\$1,273.47	\$1,293.45	\$1,293.45

*Assumes 5% of Status Quo Consumed Gallons Billed to Town Residents and 100% of Incremental Gallons Billed to Town Residents

**Derived by Summing 100% of the Assessed Property Value of All Properties Connected to System Plus 33.33% of Assessed Property Value of All Properties Located in Village Which are Not Connected to System

***Assumes \$250/Square Foot (8,000 Square Feet)

VILLAGE OF MILLBROOK, NY

Impact of Expansions & Improvements on Cost to Avg. Household

Rate Study: Status Quo Capital Improvements

Prepared By: R.S. Lynch & Company

Water	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Valve Replacement Program	\$ 36,557.00	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00
Hydrant Replacement Program	\$ 2,500.00		\$ 5,000.00	\$ 20,000.00	
Hand Held and Software upgrade	\$ 15,000.00				
Backup Generator		\$ 30,000.00			
Water Meter Replacement			\$ 275,000.00		
Water Tank Replacement			\$ 725,000.00		
GUIDI Filtration System			\$ 200,000.00		
Valve Replacement Program					
Turbine Pump and Motor					\$ 50,000.00
Annual Totals	\$ 54,057.00	\$ 65,000.00	\$ 1,240,000.00	\$ 55,000.00	\$ 85,000.00

Sewer	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Inflow and Infiltration Abatement	\$ 31,000.00	\$ 31,414.00	\$ 32,412.00	\$ 32,885.00	\$ 31,000.00
Other	\$ 4,700.00				\$ 6,885.00
Chlor/Dechlor Project	\$ 250,000.00				
Energy Efficiency Study		\$ 5,000.00			
Preliminary Plant Improvement Study			\$ 5,000.00	\$ 5,000.00	
Overflow Retention Basin					\$ 1,000,000.00
Annual Totals	\$ 285,700.00	\$ 36,414.00	\$ 37,412.00	\$ 37,885.00	\$ 1,037,885.00