



Finance and Administration

A

Village of Bloomingdale

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**MEMORANDUM**

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**Date:** March 23, 2018  
**To:** Pietro Scalera, Village Administrator  
**From:** Gary L. Szott, Finance Director/Treasurer *GS*  
**Subject:** Water & Sewer Fund 5-Year Forecast

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**Issue:** Annually and coincident with the Village's annual budget process, the Water & Sewer Fund's (the "Fund") 5-Year Forecast (the "Forecast") is updated for the purpose of assessing the Fund's financial position and the ability of water and sewer rates to support the Fund's activities. The Forecast and its format, provides the structure to measure the Fund's fiscal objectives of:

1. Generate income from operations, before depreciation, of \$200,000.
2. Maintain an operating reserve (i.e. - working capital) equal to 25% of Total Operating Expenses.
3. Maintain a 1:1 ratio of functional rates to functional operating expenses.
4. Follow a "pay-as-you-go" or cash financing approach for capital projects and debt service.

Ultimately, the Forecast provides guidance for determining and establishing water and sewer rates.

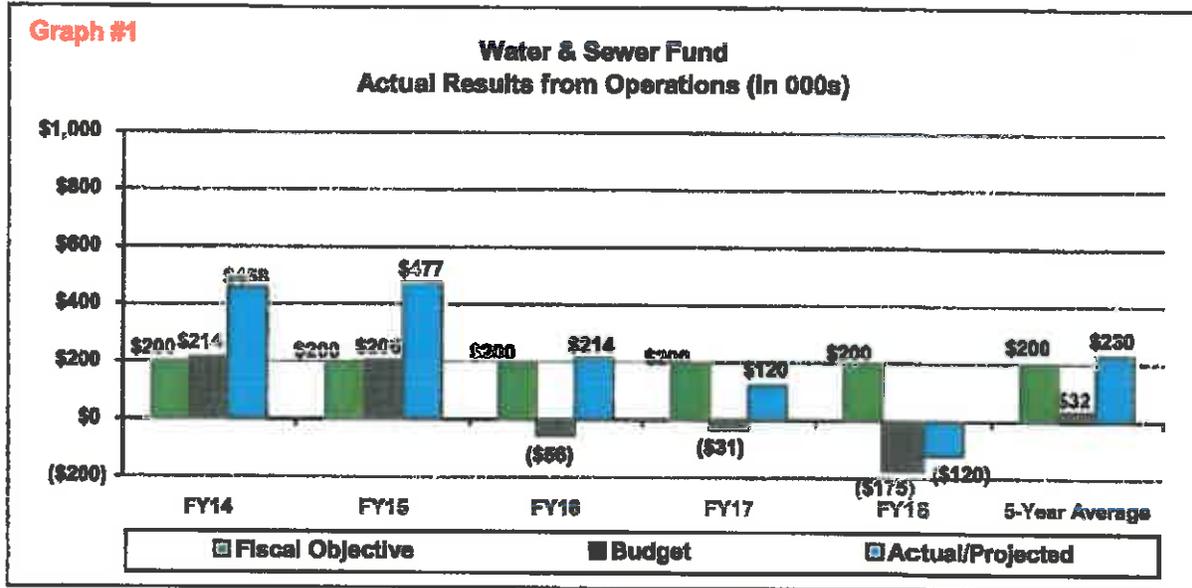
**Analysis:**

**Fiscal Objective #1 – Generate Income from Operations of \$200,000 -**

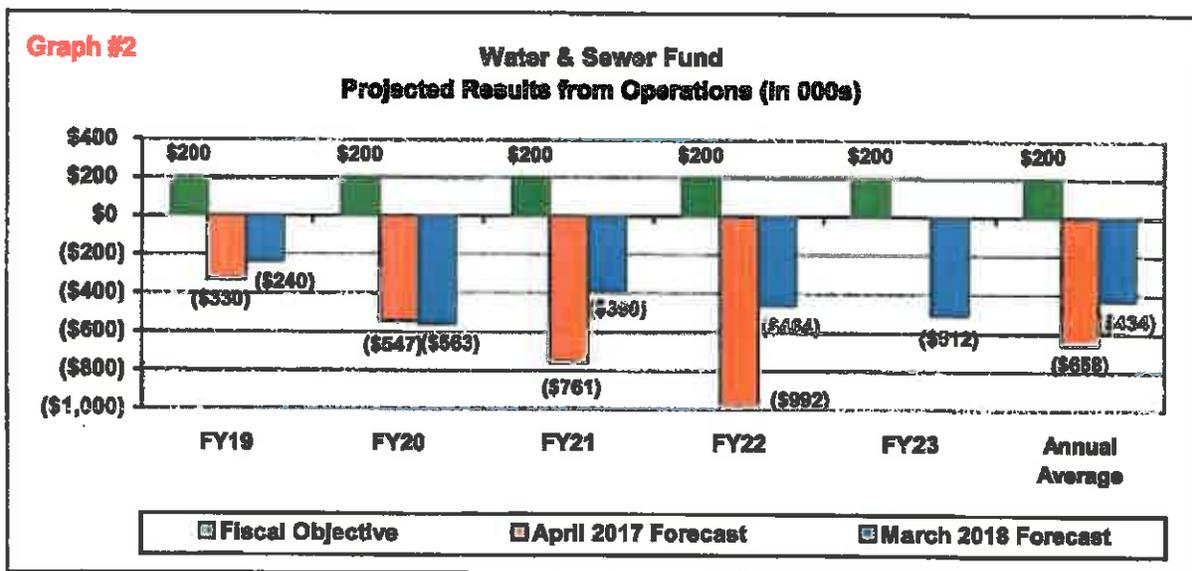
The Fund's fiscal objective is to generate income from operations, before depreciation, of \$200,000. To evaluate or measure if the Fund is achieving its objective, we begin by looking at how the Fund has performed over the past five (5) fiscal years (FY14 through FY18). During this time period, the Fund has generated an average annual income from operations, before depreciation, of \$230,000, thus attaining its objective. During this same time period, the Fund has also performed well when measured against the average annual

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budgeted income from operations, before depreciation which was approximately \$32,000. Graph #1 provides an illustration of this performance for the past five (5) fiscal years.



Next, we look forward at how the Fund is forecasted to perform over the next five (5) fiscal years (FY19 through FY23). During this time period, the Fund is projected to generate an average annual loss from operations, before depreciation, of \$434,000. A year ago, the Fund was projected to generate an average annual loss from operations, before depreciation, of approximately \$658,000. As such, the Fund's forecasted performance has improved significantly although it is still less than the fiscal objective. Graph #2 illustrates this and includes a comparison to the April 2017 forecast, for perspective.



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Driving the improvement in the Fund's forecasted performance from an average annual loss of \$658,000 in April 2017 to an average annual loss of \$434,000 in March 2018 - a \$224,000 or 34% improvement - are a couple of significant factors.

First, the Fund's five year average annual expense trend decreased from 2.29% in the prior year's Forecast to 1.49% in this year's Forecast. This is contributing, on average, approximately \$91,000 each year to the improved performance. Second are projected Village water rate increases. It is expected that the City of Chicago will continue to impose annual water cost increases to the DuPage Water Commission (DWC) and the DWC will continue to pass the increases through to its members. As such, this year's Forecast includes correlating 2% annual water cost and Village water rate increases in each year through FY23. Last year's Forecast included the DWC water cost increases but did not include any Village water rate increases. This is contributing, on average, approximately \$137,000 each year to the improved performance.

While the Fund's forecasted performance has improved when compared to the prior year's Forecast, the Fund is not expected to achieve its fiscal objective in any year over the next five years. As such, and to position the Fund to be able to achieve its fiscal objective, water and sewer rates need to be increased. This increase is in addition to the water rate increase that is necessary to maintain a correlation with the City of Chicago/DWC water cost rate increases. Based on the amount of water consumed and billable to customers, the required increases would be 54¢, or 7%, for the water rate and 39¢, or 9%, for the sewer rate. Implementation could occur as a one-time event or phased-in over a period of time. The last time water or sewer rates were increased for other than City of Chicago/DWC reasons was June 2012; nearly six years ago.

To arrive at the summary conclusions presented above and to prepare the detailed financial schedules found later in this correspondence, the following data, assumptions and methodologies were used.

1. The FY14 through FY17 amounts are actual, audited amounts. The FY18 and FY19 amounts represent the amounts that are in the proposed FY19 Budget.
2. The FY20 through FY23 Forecast amounts represent projections made by staff based upon trend history, and other knowledge, vision or cautious perspective of what is occurring now or what may be reasonably expected to occur based upon reliable information. Rate revenue is forecasted using the current water and sewer rates applied to the five year historical average annual gallons of water sold to customers. Minimal growth in the volume of water sold and the number of customers is reflected in the proposed FY19 budget. Additional growth may occur as building activity increases which would be expected to have a favorable impact on the volume of water sold, rate revenue, and the degree in which rates would need to be increased.

Operating expenses, excluding water costs, are projected by using FY19 as the "base" year and then adding an average annual increase of 1.49% which is the

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Fund's five year expense trend history. Last year, the Fund's expenses were increasing at an average annual rate of 2.29%. Actual expense activity, specific categories or line items may vary.

3. The FY19 water costs, or the cost of water that the Village is charged by the DuPage Water Commission (DWC), reflects a 10¢, or 2%, increase effective May 1, 2018, from \$4.88 per 1,000 gallons of water purchased to \$4.98 per 1,000 gallons of water purchased.

*\*\* Subsequent to the compilation and release of the proposed FY19 Budget, the DWC's FY18 tentative budget was received. It includes a 6¢, or 1.23%, increase in the cost of water from \$4.88 to \$4.94 per 1,000 gallons of water purchased. The DWC is anticipating this increase from the City of Chicago and it is based on the change in the CPI for the period December 2016 to December 2017. The FY19 through FY23 Forecast includes annual water cost increases of 2% each year through FY23.*

4. The water rates charged to Village utility customers' adjust annually in correlation with the increases imposed by the City of Chicago/DWC through FY23.

**Fiscal Objective #2 – Maintain a 25% Operating Reserve –**

A targeted operating reserve or working capital amount equal to 25% of Total Operating Expenses (3 months or 90 days of operating expenses) has been established to provide for the delivery of ongoing services, short-term cash flow disparities, unbudgeted and unexpected system repairs or equipment replacements and other unforeseen events.

Operating reserves or working capital is not intended to and does not provide "permanent" funding for operating expenses or capital projects. The purpose of operating reserves is to allow for the day-to-day activities of the Fund to continue in an orderly manner without regard to the ebbs and flows of the receipt of revenues and the payment of operating expenses.

Maintaining a 25% operating reserve or working capital balance is a reasonable and responsible level given the characteristics of the Water & Sewer Fund. In support of this policy, the Government Finance Officers Association (GFOA) has stated that 90 days is a "baseline" level of working capital for an Enterprise Fund. GFOA recommends that, under no conditions, the target for working capital be less than 45 days of annual operating expenses.

In April 2017, it was projected that the Fund would end FY17 with operating reserves of 90 days or 25% and it did. Additionally, the Fund is projected to achieve a 90 day or 25% operating reserve again in FY18. The Forecast projects that in FY19, the Fund will attain a 70 day or 19% operating reserve and in FY20 a 53 day or 15% operating reserve. Thereafter, operating reserves are projected to be depleted as operating

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deficits continue to occur and capital outlays and debt service payments continue without sufficient revenues or inflows to support them.

**Fiscal Objective #3 – 1:1 Ratio –**

The Fund strives to achieve a 1:1 ratio or allocation of water rate revenues to water function operating expenses and sewer rate revenues to sewer function operating expenses.

Over the past five fiscal years (FY14 through FY18) water rate revenue has exceeded water function expenses by an annual average of approximately \$215,000 and sewer rate revenue has exceeded sewer function expenses by an annual average of approximately \$15,000.

Over the next five fiscal years (FY19 through FY23), it is projected that water rate revenue will be less than water function expenses by an annual average of approximately \$261,000 and sewer rate revenue will be less than sewer function expenses by an annual average of approximately \$173,000.

This fiscal objective has been achieved over the past five years; however, it is not expected to be achieved over the next five years.

**Fiscal Objective #4 – “Pay-as-you-go” financing for Capital Projects and Related Debt Service –**

Historically, the Village has attempted to fund capital projects on a “pay-as-you-go”, or cash, basis. This has been able to be accomplished, with few exceptions, as the Fund has had sufficient “excess” cash and because certain revenue sources have been designated, or committed, toward this objective. The exceptions where “pay-as-you-go” financing has not been feasible involve capital projects of significant cost. In these instances, debt financing occurred to construct the project and then certain revenue sources were identified and designated or committed toward repaying the debt.

A summary listing of the Fund’s ninety-eight (98) individual proposed capital projects is attached. It reflects all of the projects that are contained in the proposed FY19 Capital Improvement Plan (CIP) with a few adjustments based on information received subsequent to the release of the proposed CIP. For analysis purposes, the ninety-eight (98) individual projects have been grouped into the nine (9) “projects”. The following provides a brief description of each of these nine (9) projects and a suggested financing approach.

1. **Non-WRF FPA Related Capital Projects** - consists of capital projects that are not directly related to the capital projects contained in the water reclamation facility’s (WRF) facility plan amendment (FPA). A number of revenue sources are committed to pay for these projects including:

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1. 18¢ per 1,000 gallons of the total \$8.01 residential/\$8.97 non-residential water rate (since June 2012)
2. 5¢ per 1,000 gallons of the total \$4.46 sewer rate (since June 2012)
3. 5¢ per 1,000 gallons of the total \$8.01 residential/\$8.97 non-residential water rate (since May 2016)
4. Water tap-on fees
5. Sewer tap-on fees (beginning in FY19)
6. Gain on sale of assets and Other revenues

These revenue sources are projected to generate approximately \$351,000 annually during the period FY19 through FY23. The cost of the non-WRF FPA related capital projects are projected to average \$471,000 during this same time period. As such, there is a projected average annual shortfall of \$120,000.

When a shortfall occurs between the committed, designated revenues and the non-WRF FPA related capital projects in any given year the Fund's "excess" cash has to be used to pay for the projects. As of April 30, 2018, it is projected that the "excess" cash balances will be approximately \$265,000. Given the projected timing of these projects the "excess" cash balances will be depleted in FY19.

To avoid the annual shortfall and the depletion of "excess" cash, an approximate combined 18¢, or 1%, rate increase (11¢ for water and 7¢ for sewer) would be required effective May 1, 2019. Alternatively, a review and revision to the scheduling/timing of the required projected capital projects could be performed as well as consideration of an annual contribution from the Home Rule Sales Tax Fund. Additionally, given the anticipated economic development or redevelopment that is occurring or expected to occur within the Village, additional revenues may be realized that are not reflected in this Forecast. Since the cost of each project, at this time, is an estimate, immediate action with respect to increasing rates may be able to be deferred until further information becomes available.

2. **WRF FPA Phase 1 - 2008 IL EPA Loan** - consists of the annual debt service payments associated with the 2008 IL EPA loan. The loan was required to construct the \$12.28 million WRF FPA Phase 1 project. To provide the monies to repay the loan, in June 2003 the Village began to designate, commit, and accumulate all sewer tap on fees and an annual \$600,000 allocation of home rule sales tax. As of April 30, 2018, it is projected that the Fund will have accumulated approximately \$4.73 million from these two sources to eventually be used to repay the loan. These accumulated monies plus future, projected annual revenues from the committed sources are expected to be sufficient to pay the loan's annual debt service of \$799,262 through to its retirement in FY29.

The Fund has been able to accumulate the \$4.73 million primarily due to sewer tap on fees being collected sooner, or at a more rapid pace, than originally anticipated in the financing plan established in FY04. In FY04 a total of \$4.77 million of sewer tap on fees from known or anticipated development was budgeted for the project.

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Through FY19, it is projected that 100% or \$4.77 million of sewer tap on fees will have been collected. The original financing plan projected that this would occur in FY23.

As a result, the Village has an opportunity to revise the annual allocation of home rule sales tax from \$600,000 ending in FY22 to \$363,000 ending in FY28. The total amount of home rule sales tax allocated to the project (\$10.83 million) would not change; just the number of years in which an allocation is made; in essence restructuring the financing. This action would in no way impact the ability of the Fund to make the required annual principal and interest payments of the loan since 100% of the "budgeted" sewer tap on fees have been collected and provided the aforementioned operating rate increases occur. The action would enhance the funding flexibility that the Home Rule Sales Tax Fund provides for other Village-wide projects and it would provide an opportunity to avoid a sewer rate increase related to Project #3. The revised annual allocation can, and should, be implemented beginning in FY19.

- 3. WRF FPA Phase 2A - 2011 IL EPA Loan** - consists of the annual debt service payments associated with the 2011 IL EPA loan. The loan was required to construct the \$4.64 million WRF FPA Phase 2A project. To provide the monies to repay the loan, in May 2009, 27¢ per 1,000 gallons, or 6%, of the total \$4.46 sewer rate was designated toward generating monies to pay the annual debt service payments. As of April 30, 2018, it is projected that the balance of these designated monies will be approximately \$92,000. This balance plus future, projected annual revenues from the committed rate revenue is expected to be sufficient to repay the loan only through FY19. Thereafter, another source of revenue or inflow will need to be identified in order to generate the monies needed to pay the loan's annual debt service of \$271,980 through to its retirement in FY32.

To generate sufficient revenue from sewer rates, an approximate 14¢ per 1,000 gallon, or 3%, sewer rate increase would be needed in FY20. This would generate additional annual revenues of approximately \$89,000 to be used to repay the loan through to its retirement, provided there are no significant changes to the number of gallons of sewer billed.

An alternative to a rate increase, and as alluded to in Project #2, would be to allocate a portion of the home rule sales tax revenues (\$89,000) each year to this project beginning in FY20 and continuing through FY32. The total amount of the funding or contribution from the Home Rule Sales Tax Fund over the thirteen year time period would be \$1.14 million. It, along with the revenue generated from the 27¢ sewer rate component, would generate the necessary monies to be used to repay the loan through to its retirement, provided there are no significant changes to the number of gallons of sewer billed. Furthermore, an allocation of the home rule sales tax revenue would avoid the need for a sewer rate increase. Additionally, the allocation of home rule sales tax is not expected to impose any burden the Home Rules Sales Tax Fund, provided the financing restructuring noted in Project

#2 is approved.

4. **WRF FPA Grit Screening/Removal – Debt Financing Required** - consists of the annual debt service payments associated with a loan or bond that would be required to construct the \$5.50 million of improvements to the WRF's grit screening and removal facility that is scheduled to begin in FY19. The project would upgrade the grit screening/removal system, address operational and maintenance issues, and assist to comply with effluent standards. Annual debt service payments are estimated to be \$368,000 and begin in FY21. No revenue sources have been identified and committed to this project and no monies have been accumulated.

To generate sufficient revenue through sewer rates, an approximate 57¢ per 1,000 gallon, or 13%, sewer rate increase would be needed in FY20 to generate sufficient annual revenues to be used to repay the loan through to its retirement, provided there are no significant changes to the number of gallons of sewer billed.

5. **WRF FPA Phosphorus Compliance – Debt Financing Required** - consists of the annual debt service payments associated with a loan or bond that would be required to construct the \$5.53 million improvements necessary to comply with EPA standards. The project is scheduled to begin in FY21. Annual debt service payments are estimated to be \$369,000 and begin in FY23. No revenue sources have been identified and committed to this project and no monies have been accumulated.

To generate sufficient revenue through sewer rates to support the annual debt service payments, an approximate \$57¢ per 1,000 gallon, or 13%, sewer rate increase would be needed in FY22, provided there are no significant changes to the number of gallons of sewer billed.

In addition to the construction component of the project, additional operating costs are estimated to be in excess of \$300,000 annually. To generate sufficient revenue through sewer rates to support the additional operating costs, an approximate 47¢, or 11%, sewer rate increase would be needed in approximately FY24; however, at this time, it is difficult to project to any certainty the amount and timing of the costs and hence the sewer rate increase. As the scope of the project becomes better defined, further analysis of the required rate increases will be made.

6. **Water Meter Replacement & Upgrade – Debt Financing Required** - consists of the annual debt service payments associated with a loan or bond that would be required to pursue the \$3.00 million project to replacement and upgrade all of the water meters together with enhancements as to how, and how often, meter readings are, or can be, obtained. The existing water meters and meter reading equipment was installed in approximately 2003 and is being phased-out, or made obsolete, by the manufacturer. Annual debt service payments are estimated to be \$651,000 and begin in FY23. No revenue sources have been identified and committed to this project and no monies have been accumulated.

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To generate sufficient revenue through sewer rates, an approximate 96¢ per 1,000 gallon, or 12%, water rate increase would be needed in FY23 through FY27 to generate sufficient annual revenues to be used to repay the loan through to its retirement, provided there are no significant changes to the number of gallons of water billed.

7. **WRF FPA Phase 3 & 4 – Debt Financing Required** - consists of WRF FPA related construction projects – Phase 3 and 4. The projects are forecasted to occur outside, or beyond, the scope of this Forecast (i.e. – in FY24 or beyond). No additional information is available at this time. Due to the magnitude of the projects, they are included in the Forecast for planning purposes.
8. **Depreciation** - consists of the annual depreciation, or systematic and rationale use or consumption of the water and sewer system's infrastructure, most notably the water and sewer mains (the "system"). This project recognizes and represents the gradual use and deterioration of the "system" (i.e. - water and sewer mains). Depreciation is a method or systematic and rationale means to recognize the wear and tear of an asset because of its use by current customers augmented by the lapse of time, eventually resulting in the expiration of the service life of that asset. Over time and as the existing system ages it will eventually need to be replaced and the cost of replacement or rehabilitation, for even a small component or length, can be significant. The annual cost or depreciation is estimated to be \$825,000. No revenue sources have been identified and committed to this project and no monies have been accumulated.

To generate sufficient revenue through water and sewer rates, an approximate \$1.26 per 1,000 gallon, or 10%, water (67¢) and sewer (59¢) rate increase would be needed to generate sufficient annual revenues to offset the depreciation, provided there are no significant changes to the number of gallons of water and sewer billed.

9. **Major Maintenance Projects (i.e. – operating costs)** - consists of projects that are individually significant in amount (> \$20,000). The purpose for including them in the CIP is primarily for planning; however, the individual projects do not meet the financial reporting definition of a capital project. The characteristics of these "projects" define them as an operating cost for financial reporting purposes. As such, for this Forecast, these projects are considered as part of the operations analysis in Fiscal Objective #1; not the capital, "pay-as-you-go" analysis.

Continuing a "pay-as-you-go" financing approach for non-WRF FPA capital projects (#1 above) is attainable. The annual debt service payments related to Project #s 2 and 3 can be funded without any further rate increases if the aforementioned financing adjustments are made; hence attaining a "pay-as-you-go" financing approach. Project #s 4 through 8 will require further discussion and direction to achieve "pay-as-you-go" financing. Project #9 is addressed in the Fiscal Objective #1 analysis.

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**Summary –**

The following table provides a summary of the various and multiple water and/or sewer rate increases noted above. Other revenue sources may also be accessed to relieve some of the burden that the rate increases will place on the users of the system.

	Effective		Rate	Increase*		Purpose/Reason
	Date	FY		%	\$	
1	6/1/XX	annually	water	2%	~11¢	City of Chicago/DWC water cost increases
2	6/1/18	FY19	water	7%	54¢	Attain fiscal policy objective of generating income from operations, before depreciation, of \$200,000
			sewer	9%	39¢	
3	6/1/19	FY20	sewer	13%	57¢	WRF FPA Grit Screening/Removal (Project #4)
4	6/1/20	FY22	sewer	13%	57¢	WRF FPA Phosphorus Compliance – (Project #5) – construction component only
5	6/1/22	FY23	water	12%	96¢	Water Meter Replacement & Upgrade – (Project #6)
6	unknown		sewer	unknown		WRF FPA Phase 3 & 4 – (Project #7)
7	unknown		water	8%	67¢	Depreciation – (Project #8)
			sewer	13%	59¢	

\* - the percentage and dollar increases are based upon current rates and are per 1,000 gallons billed

As previously stated, the purpose of this Forecast is to assess the Fund's financial position through the measurement of how it has performed, and how it is projected to perform, against its multiple fiscal objectives. The conclusions reached are summarized as follows:

1. The Fund achieved the fiscal objective of **generating income, before depreciation, of \$200,000**, on an average annual basis, over the past five fiscal years (FY14 through FY18); however, it is not projected to achieve the objective over the next five fiscal years (FY19 through FY23).
2. The Fund has maintained, or will be able to maintain, **operating reserves (i.e. - working capital)** equal to 25% of Total Operating Expenses through FY18. It is projected operating reserves will decline to 53 days or 15% in FY20, and then be depleted beginning in FY21.
3. The Fund achieved a **revenue to expense ratio**, by function, of 1:1 for the past five fiscal years (FY14 through FY18) and it is projected the Fund will achieve the objective over the next five fiscal years (FY19 through FY23).
4. The Fund has been able to maintain a **"pay-as-you-go"** financing approach for capital expenses, with some exception, over the past five fiscal years (FY14

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through FY18). It is projected that the Fund will be able to continue to maintain this financing approach over the next five fiscal years (FY19 through FY23) for certain projects and other projects will require debt financing. To provide for the repayment of the debt, specific revenue sources will need to be identified.

**Recommendation:** It is respectfully recommended the Village Board review the Water & Sewer Fund 5-Year Forecast to gain an understanding of the current and future financial position of the Fund and the projected, potential impact to water and sewer rates. Additionally, it is recommended that the Village Board:

1. Approve a water rate increase that is correlated with any increase in costs imposed on the Village by the City of Chicago/DuPage Water Commission.
2. Approve a water rate and a sewer rate increase for the purpose of enhancing the ability of the Fund to achieve its fiscal objective. It is estimated that a water rate increase of 54¢ and a sewer rate increase of 39¢ would be necessary; however, implementation could occur as a one-time event or phased-in over a period of time.
3. Approve the financing restructuring for the WRF FPA Phase 1 - 2008 IL EPA Loan (#2) capital project noted above effective May 1, 2018 (FY19).
4. Approve an annual contribution from the Home Rule Sales Tax to the Water & Sewer Fund in the amount of \$89,000 for the purpose of funding the annual debt service payments for the WRF FPA Phase 2A - 2011 IL EPA Loan (#3) capital project effective May 1, 2019 (FY20).

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 SUMMARY OF OPERATING REVENUES AND EXPENSES

03/23/18

	[A]		[B]		[C]		[D]		[E]		[F]		[G]		[H]		SOURCE COMMENTS OR ASSUMPTIONS
	(audited) FY	(Budget) FY	(Budget) FY	(EOY) FY	(Budget) FY	(Forecast) FY											
<b>OPERATING REVENUES</b>																	
1	8,338,018	8,516,370	8,269,520	8,227,780	8,213,600	8,325,400	8,440,500	8,557,900	8,557,900	8,557,900	8,557,900	8,557,900	8,557,900	8,557,900	8,557,900	8,557,900	5 Yr Ave gallons billed & annual 2% increases
2	193,840	177,860	150,705	172,550	168,800	168,800	168,800	168,800	168,800	168,800	168,800	168,800	168,800	168,800	168,800	168,800	5-year average
3	76,269	70,000	72,635	120,000	131,000	119,000	86,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	2.0% Yield assumption FY20-FY23
4	98,231	60,270	42,610	35,810	21,600	23,600	21,600	21,600	21,600	21,600	21,600	21,600	21,600	21,600	21,600	21,600	IRMA surplus
5	8,706,358	8,824,500	8,535,870	8,556,140	8,534,000	8,636,800	8,716,900	8,826,300	8,826,300	8,826,300	8,826,300	8,826,300	8,826,300	8,826,300	8,826,300	8,826,300	
<b>OPERATING &amp; DEBT EXPENSES</b>																	
<b>Operating Expenses:</b>																	
6	260,603	269,080	272,795	284,185	288,400	292,700	297,100	301,500	301,500	301,500	301,500	301,500	301,500	301,500	301,500	301,500	5-Yr Ave change - 1.49% applied to FY20-FY23
7	773,373	847,560	820,755	847,295	859,900	872,700	885,700	898,900	898,900	898,900	898,900	898,900	898,900	898,900	898,900	898,900	5-Yr Ave change - 1.49% applied to FY20-FY23
8	3,535,733	3,733,200	3,611,200	3,715,080	3,789,400	3,865,200	3,942,500	4,021,400	4,021,400	4,021,400	4,021,400	4,021,400	4,021,400	4,021,400	4,021,400	4,021,400	5 Yr Ave gals purch & annual 2% CPI increases
9	1,224,132	1,275,565	1,225,550	1,211,780	1,349,900	1,248,300	1,266,900	1,285,800	1,285,800	1,285,800	1,285,800	1,285,800	1,285,800	1,285,800	1,285,800	1,285,800	5-Yr Ave change - 1.49% applied to FY20-FY23
10	747,705	801,835	802,235	844,250	785,800	797,500	809,400	821,500	821,500	821,500	821,500	821,500	821,500	821,500	821,500	821,500	5-Yr Ave change - 1.49% applied to FY20-FY23
11	2,015,309	2,071,920	1,972,500	1,893,660	2,023,900	1,950,600	1,979,700	2,009,300	2,009,300	2,009,300	2,009,300	2,009,300	2,009,300	2,009,300	2,009,300	2,009,300	5-Yr Ave change - 1.49% applied to FY20-FY23
12	8,556,855	8,999,160	8,655,475	8,796,250	9,097,300	9,027,000	9,181,300	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	
<b>OPERATING NET INCOME (LOSS)</b>																	
13	149,503	(174,660)	(119,605)	(240,110)	(563,300)	(390,200)	(464,400)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	
<b>BEFORE DEBT SERVICE EXPENSE</b>																	
<b>Debt Service Expenses:</b>																	
14	29,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2009 GO Bond - retired in FY17
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	29,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL OPERATING &amp; DEBT SERVICE EXPENSES</b>																	
17	8,586,455	8,999,160	8,655,475	8,796,250	9,097,300	9,027,000	9,181,300	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	9,338,400	
<b>OPERATING NET INCOME (LOSS) BEFORE DEPRECIATION</b>																	
18	119,903	(174,660)	(119,605)	(240,110)	(563,300)	(390,200)	(464,400)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	<b>FISCAL OBJECTIVE</b> Generate income of \$200,000
<b>Depreciation Expense</b>																	
19	1,666,236	0	1,681,000	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>OPERATING NET INCOME (LOSS)</b>																	
20	(1,546,333)	(174,660)	(1,800,605)	(240,110)	(563,300)	(390,200)	(464,400)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	(512,100)	

VILLAGE OF BLOOMINGDALE  
WATER & SEWER FUND 5-YEAR FORECAST  
SUMMARY OF CAPITAL PROJECTS' REVENUES AND EXPENSES

03/23/18

	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	SOURCE, COMMENTS or ASSUMPTIONS
	(budgeted) FY	(budgeted) FY	(FOY) FY	(budgeted) FY	(forecast) FY	(forecast) FY	(forecast) FY	(forecast) FY	
<b>CAPITAL REVENUES</b>									
1 Sewer Rate Revenue - FPA Phase 2A (5/1/09)	180,119	184,000	176,380	183,330	177,836	177,836	177,836	177,836	219 Committed to Debt Service
2 Water Rate Revenue - capital projects (6/1/12)	158,493	127,980	111,960	122,220	122,238	122,238	122,238	122,238	186 Committed to non-WRF capital projects
3 Sewer Rate Revenue - capital projects (6/1/12)	33,355	34,100	31,100	32,250	32,936	32,936	32,936	32,936	56 Committed to non-WRF capital projects
4 Water Rate Revenue - capital projects (5/1/16)	0	35,590	32,700	33,950	33,935	33,935	33,935	33,935	56 (DWIC) Committed to non-WRF projects
5 Operating Transfers In - from HR Sales Tax	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	Committed to FPA Phase 1 Debt Service
6 Operating Transfers In - from HR Sales Tax	740,000	0	0	0	0	0	0	0	Committed to 2009 GO Debt Service
7 Tap-On Fees - Water	28,489	10,000	8,265	35,625	10,000	10,000	10,000	10,000	Committed to non-WRF FPA projects
8 Tap-On Fees - Sewer	262,308	40,000	76,850	331,250	40,000	40,000	40,000	40,000	Committed to FPA Phase 1 Debt thru FY20; non WI
9 Grit Screening/Removal - Bond Proceeds (FY20)	0	0	0	0	0	0	0	0	Committed to Grit Screen/Remove Const.
10 Grit Revenue source TBD to repay loan	0	0	0	0	0	0	0	0	367,698 Committed to Phosphorus Compliance Construction
11 Phosphorus Compliance - Loan Proceeds (FY22)	0	0	0	0	0	0	0	0	369,370 Committed to Phosphorus Compliance Loan P & I
12 Phosphorus Compliance Rev source TBD to repay loan	0	0	0	0	0	0	0	0	3,000,000 Committed to Water Meter Replacement Project
13 Water Meter Replacement Rev source TBD	0	0	0	0	0	0	0	0	Committed to FPA Phase 3 Construction
14 FPA Phase 3 - Loan Proceeds	0	0	0	0	0	0	0	0	Committed to FPA Phase 4 Construction
15 FPA Phase 4 - Loan Proceeds	0	0	0	0	0	0	0	0	Committed to non-WRF FPA capital projects
16 Gain on Sale of Assets and other	21,080	284,300	284,215	5,000	67,877	67,877	67,877	67,877	Committed to non-WRF FPA capital projects
17 TOTAL CAPITAL REVENUES	2,023,845	1,316,130	1,331,670	1,343,825	6,584,861	1,452,559	6,977,539	4,821,929	

	CAPITAL EXPENSES								
	Capital Projects excluding Major Maintenance -								
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	
	(budgeted) FY	(budgeted) FY	(FOY) FY	(budgeted) FY	(forecast) FY	(forecast) FY	(forecast) FY	(forecast) FY	
18 Non WRF FPA	481,910	786,410	681,265	414,000	373,150	800,832	400,600	564,180	FY19 CIP excluding Major Mnt & Depreciation
20 WAF FPA Grit Screening/Removal Facility	0	0	0	305,000	5,195,000	0	0	0	FY19 CIP - Grit Screening/Removal
21 WRF FPA Phosphorus Compliance	0	0	0	0	0	485,000	5,040,000	0	FY19 CIP - Phosphorus Compliance
22 Water Meter Replacement & Upgrade	0	0	0	0	0	0	0	3,000,000	FY19 CIP - Water Meter Replacement
23 WRF FPA Phase 3	0	0	0	0	0	0	0	0	WRF FPA Phase 3
24 WRF FPA Phase 4	0	0	0	0	0	0	0	0	WRF FPA Phase 4
19 Depreciation	0	0	0	0	0	0	0	0	FY19 CIP - Infrastructure Depreciation
<b>Sub-Total Capital Projects</b>									
	481,910	786,410	681,265	719,000	5,568,150	1,285,832	5,440,600	3,564,180	
Debt Service -									
25 2009 GO Refunding Bond - Principal	740,000	0	0	0	0	0	0	0	2009 GO Bond - retired in FY17
26 FPA Phase 1 - 2008 IRPA Loan - P & I	799,262	799,265	799,265	799,265	799,265	799,265	799,265	799,265	WRF FPA Phase 1 - retired in FY29
27 FPA Phase 2A - 2011 IRPA Loan P & I	271,980	271,985	271,985	271,985	271,985	271,985	271,985	271,985	WRF FPA Phase 2A - retired in FY32
28 Grit Screening/Removal - Bond P & I	0	0	0	0	0	367,698	367,698	367,698	Grit Screening/Removal - retired in FY41
29 Phosphorus Compliance - Loan P & I	0	0	0	0	0	0	0	369,370	Phosphorus Compliance - retired in FY43
30 FPA Phase 3 - Loan P & I	0	0	0	0	0	0	0	0	WRF FPA Phase 3
31 FPA Phase 4 - Loan P & I	0	0	0	0	0	0	0	0	WRF FPA Phase 4
<b>Sub-Total Debt Service</b>									
	1,811,243	1,071,250	1,071,250	1,071,250	1,071,250	1,438,948	1,438,948	1,808,318	
32 TOTAL CAPITAL & DEBT SERVICE	2,299,153	1,857,660	1,792,515	1,790,250	6,639,400	2,724,800	6,879,548	5,172,498	
<b>EXCESS/(DEFICIENCY) OF CAPITAL REVENUES OVER CAPITAL &amp; DEBT SERVICE EXPENSES</b>									
33	(269,308)	(941,530)	(420,845)	(446,825)	(91,539)	(1,373,243)	98,611	(380,569)	

FISCAL OBJECTIVE  
"Pay-as-you-go" Financing

VILLAGE OF BLOOMINGDALE  
 WATER & SEWER FUND 5-YEAR FORECAST  
 SUMMARY OF CASH BALANCES

03/23/18

	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]
	(audited) FY	(budget) FY	(EOY) FY	(budget) FY	(forecast) FY	(forecast) FY	(forecast) FY	(forecast) FY
	04/30/17	04/30/18	04/30/19	04/30/20	04/30/21	04/30/22	04/30/23	
SUMMARY OF ACTIVITY								
1	7,945,507	7,945,373	7,796,102	7,255,652	6,568,917	5,951,078	4,288,638	3,922,249
Pride year's ending balance								
SOURCE COMMENTS or ASSUMPTIONS								

2	119,903	(174,660)	(119,605)	(240,110)	(563,300)	(390,200)	(464,400)	(512,100)
OPERATING NET INCOME (LOSS)								
3	(269,308)	(541,530)	(420,845)	(446,625)	(54,539)	(1,272,241)	98,011	(350,569)
EXCESS/(DEFICIENCY) OF CAPITAL								
4	(149,405)	(716,190)	(540,450)	(686,735)	(617,839)	(1,662,441)	(366,389)	(862,669)
NET CHANGE from Operations & Capital								
5	7,796,102	7,229,183	7,255,652	6,568,917	5,951,078	4,288,638	3,922,249	3,459,581
ENDING CASH BALANCE								
Annual Impact to Cash Balance								

	ALLOCATION OF ENDING CASH BALANCE								
	90	90	90	70	53	0	0	0	# of days working capital % of working capital
6	COMMITTED								
7	2,146,614	2,249,790	2,163,869	1,698,703	1,334,259	0	0	0	25% of Total Operating Expenses
8	4,857,208	4,697,943	4,734,793	4,866,778	4,707,513	4,508,248	4,308,983	4,109,718	cumulative; beg bal plus rev less debt svc
9	187,496	99,511	92,091	3,436	(90,694)	(184,823)	(278,952)	(373,082)	cumulative; beg bal plus rev less debt svc
10	0	0	0	0	0	0	0	0	cumulative; beg bal + rev less cap projects
11	7,191,317	7,047,244	6,990,752	6,568,917	5,951,078	4,323,425	4,030,030	3,736,636	
12	604,785	181,939	264,900	0	0	(34,787)	(107,781)	(677,055)	
"EXCESS" AVAILABLE FOR CAPITAL									
13	7,796,102	7,229,183	7,255,652	6,568,917	5,951,078	4,288,638	3,922,249	3,459,581	
ENDING CASH BALANCE									



# Village of Bloomingdale Summary of Water Sewer Fund's Capital Projects

CIP doc #	page #	Fund Type	FY18 Budget	FY20 Projected	FY21 Projected	FY22 Projected	FY23 Projected	Total
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SUMMARY								
Memo #	Project - Title	FY18 Budget	FY20 Projected	FY21 Projected	FY22 Projected	FY23 Projected	Total	
1	Non-WRF FPA Capital Projects	\$414,000	\$373,150	\$600,855	\$400,800	\$364,180	\$2,352,785	
2	WRF FPA Phase 1 - 2006 IL EPA Loan	\$0	\$0	\$0	\$0	\$0	\$0	
3	WRF FPA Phase 2A - 2011 IL EPA Loan	\$0	\$0	\$0	\$0	\$0	\$0	
4	WRF FPA Grit Screening/Removal	\$305,000	\$5,500,000	\$0	\$0	\$0	\$5,805,000	
5	WRF FPA Phosphorus Compliance	\$0	\$0	\$485,000	\$5,040,000	\$0	\$5,525,000	
6	Water Meter Replacement & Upgrade	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000	
7	WRF FPA Phase 3 & 4	\$0	\$0	\$0	\$0	\$0	\$0	
8	Depreciation	\$0	\$825,100	\$825,100	\$825,100	\$825,100	\$3,300,400	
9	Major Maintenance Projects (i.e. - operating costs)	\$289,185	\$475,830	\$290,595	\$285,420	\$279,285	\$1,630,315	
<b>Total Projects - Water &amp; Sewer</b>		<b>\$1,018,185</b>	<b>\$7,174,080</b>	<b>\$2,401,850</b>	<b>\$8,551,120</b>	<b>\$4,468,585</b>	<b>\$21,613,500</b>	

Project - Title								
Memo #	Project - Title	FY18 Budget	FY20 Projected	FY21 Projected	FY22 Projected	FY23 Projected	Total	
1	Water & Sewer 474 Grit-Screening Removal Facility	\$305,000	\$5,500,000	\$0	\$0	\$0	\$5,805,000	
2	Water & Sewer 188 Additional Alternative Back-Up Electrical Power Sources	\$200,000	\$0	\$0	\$0	\$0	\$200,000	
3	Water & Sewer 193 SCADA for Filter Process	\$130,000	\$0	\$0	\$0	\$0	\$130,000	
4	Water & Sewer 626 Bloomingdale Rd Lift Station-Control Cabinet	\$75,000	\$0	\$0	\$0	\$0	\$75,000	
5	Water & Sewer 283 Grit Removal	\$70,000	\$70,000	\$70,000	\$0	\$0	\$210,000	
6	Water & Sewer 238 Fire Hydrant Replacement Program	\$45,000	\$45,000	\$45,000	\$100,000	\$0	\$295,000	
7	Water & Sewer 237 Main Line Water Valve Replacement Program	\$40,000	\$45,000	\$45,000	\$45,000	\$45,000	\$220,000	
8	Water & Sewer 285 Sanitary Sewer Wye & Manhole Sealing	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$200,000	
9	Water & Sewer 281 Gary Ave Station #8 replace 200HP with 60HP pump	\$38,000	\$0	\$0	\$0	\$0	\$38,000	
10	Water & Sewer 348 Water Quality Improvement Assessment (DRSCW)	\$38,185	\$58,830	\$50,585	\$62,420	\$64,285	\$282,315	
11	Water & Sewer 349 Sanitary Wye Replacement & Point Repair Program	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000	
12	Water & Sewer 513 1995 Sauber Shoring Trailer - Unit 1ST	\$8,000	\$0	\$0	\$0	\$0	\$8,000	
13	Water & Sewer 63 Water Main Major Maintenance Improvements	\$0	\$451,300	\$451,300	\$451,300	\$451,300	\$1,805,200	
14	Water & Sewer 72 Sanitary Sewer Main Major Maintenance Improvements	\$0	\$373,800	\$373,800	\$373,800	\$373,800	\$1,495,200	
15	Water & Sewer 624 Facility Plan Amendment (FPA) Update	\$0	\$102,000	\$0	\$0	\$0	\$102,000	
16	Water & Sewer 517 Water System Hydraulic Model Update	\$0	\$70,000	\$0	\$0	\$0	\$70,000	
17	Water & Sewer 77 New & Replacement Equipment	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000	
18	Water & Sewer 518 Water System Condition and Reliability Study	\$0	\$60,000	\$0	\$0	\$0	\$60,000	
18	Water & Sewer 518 Ford F250 pick up Vehicle # 208	\$0	\$48,550	\$0	\$0	\$0	\$48,550	
19	Water & Sewer 288 MPI - Lake and Fairfield	\$0	\$40,000	\$0	\$0	\$0	\$40,000	
20	Water & Sewer 53 WRF Port Aeration System - Submersible Aspirating Aerator	\$0	\$30,000	\$0	\$0	\$0	\$30,000	
21	Water & Sewer 369 WRF Port Aeration System - Submersible Aspirating Aerator	\$0	\$30,000	\$0	\$0	\$0	\$30,000	
22	Water & Sewer 89 Lawrence Ave Lift Station	\$0	\$25,000	\$0	\$0	\$0	\$25,000	
23	Water & Sewer 73 Sewer - New & Replacement Equipment	\$0	\$23,400	\$23,400	\$23,400	\$23,400	\$93,600	
24	Water & Sewer 1 Wrinthon Water Tower Maintenance	\$0	\$20,000	\$350,000	\$0	\$0	\$370,000	
25	Water & Sewer 182 Main Control Building "C" Roof	\$0	\$20,000	\$0	\$0	\$0	\$20,000	
26	Water & Sewer 180 Valve Actuators Controller Upgrades	\$0	\$18,000	\$10,000	\$0	\$0	\$28,000	
27	Water & Sewer 189 Skylights - Various Buildings	\$0	\$16,000	\$0	\$0	\$0	\$16,000	
28	Water & Sewer 483 Bulk Water Dispensing System at Public Works	\$0	\$15,000	\$0	\$0	\$0	\$15,000	
28	Water & Sewer 374 WRF Biocides Sludge Pump CDQ DAA (Eest)	\$0	\$14,000	\$0	\$0	\$0	\$14,000	
30	Water & Sewer 4 Source - New & Replacement Equipment	\$0	\$13,200	\$13,200	\$13,200	\$13,200	\$52,800	
31	Water & Sewer 187 Laboratory Incubator	\$0	\$8,000	\$0	\$0	\$0	\$8,000	

# Village of Bloomingdale

## Summary of Water Sewer Fund's Capital Projects

#	page #	Fund Type	CIP desc	FY18	FY20	FY21	FY22	FY23	Total
				Budget	Projected	Projected	Projected	Projected	
32	199	Water & Sewer	74 WRF Phosphorus Compliance	\$0	\$0	\$485,000	\$5,040,000	\$0	\$5,525,000
33	200	Water & Sewer	310 2003 Ford F450 Dump Truck Vehicle #703	\$0	\$0	\$65,575	\$0	\$0	\$65,575
34	201	Water & Sewer	88 North Circle Ave Lift Station	\$0	\$0	\$80,000	\$0	\$0	\$80,000
35	202	Water & Sewer	191 SCADA Replacement/Upgrade	\$0	\$0	\$75,000	\$0	\$0	\$75,000
36	203	Water & Sewer	510 Eastside Ground Storage Tank Sump Pump Replacement	\$0	\$0	\$45,000	\$0	\$0	\$45,000
37	204	Water & Sewer	358 Kubota 4WD Tractor #82106	\$0	\$0	\$33,690	\$0	\$0	\$33,690
38	205	Water & Sewer	477 Mini Message Board #2	\$0	\$0	\$15,000	\$0	\$0	\$15,000
39	206	Water & Sewer	375 WRF Biosolids Sludge Pump CDQ DAA (West)	\$0	\$0	\$14,000	\$0	\$0	\$14,000
40	207	Water & Sewer	373 WRF Digital Process Control Computers	\$0	\$0	\$5,000	\$0	\$0	\$5,000
41	208	Water & Sewer	614 2 1/2 Ton Dump Truck	\$0	\$0	\$0	\$180,000	\$0	\$180,000
42	208	Water & Sewer	316 2008 International Flat Bed #108	\$0	\$0	\$0	\$119,000	\$0	\$119,000
43	210	Water & Sewer	198 WRF 4X4 Utility Vehicle	\$0	\$0	\$0	\$15,000	\$0	\$15,000
44	211	Water & Sewer	429 Cardinal Water Tower Maintenance	\$0	\$0	\$0	\$8,000	\$0	\$8,000
45	212	Water & Sewer	482 Sensus Floxnet System for Water	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000
46	213	Water & Sewer	358 Mini Excavator - CAT305	\$0	\$0	\$0	\$0	\$98,390	\$98,390
47	214	Water & Sewer	58 MPI - Bloomingdale Rd (Loop)	\$0	\$0	\$0	\$0	\$62,000	\$62,000
48	215	Water & Sewer	70 Eastgate Lift Station	\$0	\$0	\$0	\$0	\$25,000	\$25,000
49	216	Water & Sewer	71 Springfield Dr Lift Station	\$0	\$0	\$0	\$0	\$25,000	\$25,000
50	217	Water & Sewer	381 Trailer (Rollie Rita- 25KR25HD-LP) #T408	\$0	\$0	\$0	\$0	\$25,000	\$25,000
51	218	Water & Sewer	57 MPI - Schick, Cardinal, Villa (Loop)	\$0	\$0	\$0	\$0	\$23,000	\$23,000
52	219	Water & Sewer	259 GPS Units for WS Utility Vehicles	\$0	\$0	\$0	\$0	\$12,000	\$12,000
53	220	Water & Sewer	294 Chlorination System Upgrade	\$0	\$0	\$0	\$0	\$12,000	\$12,000
54	221	Water & Sewer	150 Chemical Vacuum Induction Pump	\$0	\$0	\$0	\$0	\$7,200	\$7,200
55	222	Water & Sewer	3 Water Storage	\$0	\$0	\$0	\$0	\$0	\$0
58	223	Water & Sewer	5 MPI - Glenwood between Gary Ave & Schick Rd	\$0	\$0	\$0	\$0	\$0	\$0
57	224	Water & Sewer	52 MPI - East Army Trail Rd (loop)	\$0	\$0	\$0	\$0	\$0	\$0
59	225	Water & Sewer	54 MPI - Cavalry Drive Area	\$0	\$0	\$0	\$0	\$0	\$0
59	226	Water & Sewer	55 MPI - Madinah Rd (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
60	227	Water & Sewer	80 MPI - N Bloomingdale Rd (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
61	228	Water & Sewer	61 MPI - Brighton Dr (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
62	229	Water & Sewer	62 MPI - Dee Ct - Morningside (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
63	230	Water & Sewer	88 East Army Trail Rd Redevelopment Area	\$0	\$0	\$0	\$0	\$0	\$0
64	231	Water & Sewer	67 Bloomingdale Rd Lift Station	\$0	\$0	\$0	\$0	\$0	\$0
65	232	Water & Sewer	75 FPA Improvements - Phase 4	\$0	\$0	\$0	\$0	\$0	\$0
66	233	Water & Sewer	78 FPA Improvements - Phase 3	\$0	\$0	\$0	\$0	\$0	\$0
67	234	Water & Sewer	78 2005 Chevy Tahoe, Vehicle #812	\$0	\$0	\$0	\$0	\$0	\$0
68	235	Water & Sewer	79 WRF 2000 GMC 3/4 Ton Pick-up Vehicle #200	\$0	\$0	\$0	\$0	\$0	\$0
69	236	Water & Sewer	300 2005 Chevrolet Colorado Vehicle #531	\$0	\$0	\$0	\$0	\$0	\$0
70	237	Water & Sewer	329 International 7400 Truck w/ Vector 21112 #109	\$0	\$0	\$0	\$0	\$0	\$0
71	238	Water & Sewer	331 2012 Ford 1 Ton Pick-up, Vehicle #812	\$0	\$0	\$0	\$0	\$0	\$0
72	239	Water & Sewer	354 Handheld Meter Readers (2)	\$0	\$0	\$0	\$0	\$0	\$0
73	240	Water & Sewer	380 Vehicle Meter Reader Transceiver Unit	\$0	\$0	\$0	\$0	\$0	\$0
74	241	Water & Sewer	362 Hydraulics Saw Package - ICS	\$0	\$0	\$0	\$0	\$0	\$0
75	242	Water & Sewer	363 Ingersoll Rand Air Compressor Unit #882	\$0	\$0	\$0	\$0	\$0	\$0

# Village of Bloomingdale Summary of Water Sewer Fund's Capital Projects

#	page #	Fund Type	CIP doc						Total	
			FY10 Budget	FY20 Projected	FY21 Projected	FY22 Projected	FY23 Projected			
76	243	Water & Sewer	365	Hydraulic: 15 HP Submersible Pump - S10086171	\$0	\$0	\$0	\$0	\$0	\$0
77	244	Water & Sewer	367	WRF 6" D1-Prime Portable Pump & Trailer	\$0	\$0	\$0	\$0	\$0	\$0
78	245	Water & Sewer	368	WRF Influent Odor Control Activated Carbon Drum Scrubber	\$0	\$0	\$0	\$0	\$0	\$0
79	246	Water & Sewer	370	WRF Biosolids Polymer/Chemical Mixing and Feed System -1	\$0	\$0	\$0	\$0	\$0	\$0
80	247	Water & Sewer	402	Eastlake Ground Storage Tank Maintenance	\$0	\$0	\$0	\$0	\$0	\$0
81	248	Water & Sewer	421	2016 Ford F59 Step Van #316	\$0	\$0	\$0	\$0	\$0	\$0
82	249	Water & Sewer	431	Mac-Lander Trailer #UT104	\$0	\$0	\$0	\$0	\$0	\$0
83	250	Water & Sewer	441	MQ Generator DB138UJ Unit #501	\$0	\$0	\$0	\$0	\$0	\$0
84	251	Water & Sewer	442	MQ Generator 31089-USTB Unit #704	\$0	\$0	\$0	\$0	\$0	\$0
85	252	Water & Sewer	443	Doosan Generator G125WCU-3Q-T4I Unit #414	\$0	\$0	\$0	\$0	\$0	\$0
86	253	Water & Sewer	444	Gorman-Rupp 6" Pump Unit #688	\$0	\$0	\$0	\$0	\$0	\$0
87	254	Water & Sewer	462	Small Meter Bench Test Equipment	\$0	\$0	\$0	\$0	\$0	\$0
88	255	Water & Sewer	484	Emergency Generator at Station #8	\$0	\$0	\$0	\$0	\$0	\$0
89	256	Water & Sewer	485	Domestic Diesel Engine	\$0	\$0	\$0	\$0	\$0	\$0
90	257	Water & Sewer	475	2016 CAT430F2 IT Combination Backhoe Loader	\$0	\$0	\$0	\$0	\$0	\$0
91	258	Water & Sewer	476	2016 Doosan Generator G125WCU-3Q-T4I Unit #516	\$0	\$0	\$0	\$0	\$0	\$0
92	259	Water & Sewer	478	2017 Peterbilt 2 1/2 Ton Dump Truck #317	\$0	\$0	\$0	\$0	\$0	\$0
93	260	Water & Sewer	495	2017 E.H. Wachs Valve Maintenance Trailer Unit #VMT2	\$0	\$0	\$0	\$0	\$0	\$0
94	261	Water & Sewer	511	2017 Ford F-350 One-Ton Pickup - Truck #817	\$0	\$0	\$0	\$0	\$0	\$0
95	262	Water & Sewer	512	2017 Ford F-350 One-Ton Pickup - Truck #917	\$0	\$0	\$0	\$0	\$0	\$0
96	263	Water & Sewer	520	WRF Biosolids Polymer/Chemical Mixing and Feed System -2	\$0	\$0	\$0	\$0	\$0	\$0
97	264	Water & Sewer	521	WRF - Excess Flow Polymer/Chemical Mixing and Feed System	\$0	\$0	\$0	\$0	\$0	\$0
98	265	Water & Sewer	522	Chemical Feed System	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Projects - Water &amp; Sewer</b>					<b>\$1,018,185</b>	<b>\$7,174,080</b>	<b>\$2,401,550</b>	<b>\$6,551,120</b>	<b>\$4,468,585</b>	<b>\$21,613,500</b>

Village of Bloomingtondale  
Water & Sewer Rate History

03/29/18

RESIDENTIAL USERS -

Month-Year of Rate Change	Rates				Bill				Purpose	
	Water		Sewer		Minimum Dtl		Average [c]			
	per 1,000 gals	Change \$ %	per 1,000 gals	Change \$ %	Total \$	Change \$ %	Total \$	Change \$ %		
May-82	\$1.30		\$0.50		\$28.25		\$40.85			
July-84	[a] \$1.37	\$0.07 5.36%	\$0.53	\$0.03 6.00%	\$28.87	\$1.62 5.72%	\$43.17	\$2.32 5.67%	W-LMW: S-IEPA grant	
March-86	[a] \$1.48	\$0.11 8.03%	\$0.53	\$0.00 0.00%	\$30.42	\$0.55 1.84%	\$44.49	\$1.32 3.05%	W-LMW: S-Operations	
September-86	[a] \$1.48	\$0.00 0.00%	\$1.48	\$0.95 179.25%	\$38.73	\$8.32 27.34%	\$59.45	\$14.97 33.64%	W-LMW: S-Operations	
March-87	[a] \$1.53	\$0.05 3.38%	\$1.48	\$0.00 0.00%	\$38.98	\$0.25 0.65%	\$60.05	\$0.60 1.01%	W-LMW: S-Operations	
March-88	[a] \$1.58	\$0.05 3.27%	\$1.48	\$0.00 0.00%	\$39.23	\$0.25 0.64%	\$60.65	\$0.60 1.00%	W-LMW: S-Operations	
March-90	[a] \$1.58	\$0.00 0.00%	\$1.30	(\$0.18) -12.16%	\$35.80	(\$3.43) -23.96%	\$55.96	(\$4.69) -7.74%	W-LMW: S-IEPA grant	
May-92	\$1.71	\$0.13 8.23%	\$2.45	\$1.15 88.46%	\$35.80	\$0.00 0.00%	\$64.92	\$8.96 16.01%	W-LMW: S-Operations	
May-93	\$2.35	\$0.64 37.43%	\$3.38	\$0.93 37.96%	\$35.80	\$0.00 0.00%	\$75.91	\$10.99 16.93%	W-LMW: S-Operations	
May-94	\$2.59	\$0.24 10.21%	\$3.71	\$0.33 9.76%	\$35.80	\$0.00 0.00%	\$79.90	\$3.99 5.26%	W-LMW: S-Operations	
November-94	\$3.16	\$0.57 22.01%	\$3.14	(\$0.57) -15.36%	\$31.50	(\$4.30) -12.01%	\$75.60	(\$4.30) -5.38%	W-LMW: S-Operations	
November-03	\$3.36	\$0.20 6.33%	\$3.34	\$0.20 6.37%	\$33.50	\$2.00 6.35%	\$80.40	\$4.80 6.35%	Operations	
November-04	\$3.36	\$0.00 0.00%	\$3.54	\$0.20 5.99%	\$34.50	\$1.00 2.99%	\$82.80	\$2.40 2.99%	Operations	
November-05	\$3.36	\$0.00 0.00%	\$3.74	\$0.20 5.65%	\$35.50	\$1.00 2.90%	\$85.20	\$2.40 2.90%	Operations	
November-06	\$3.36	\$0.00 0.00%	\$3.84	\$0.10 2.67%	\$35.00	\$0.50 1.41%	\$86.40	\$1.20 1.41%	Operations	
November-07	\$3.36	\$0.00 0.00%	\$3.94	\$0.10 2.60%	\$36.50	\$0.50 1.39%	\$87.60	\$1.20 1.39%	Operations	
November-08	\$3.56	\$0.20 5.95%	\$4.04	\$0.10 2.54%	\$38.00	\$1.50 4.11%	\$91.20	\$3.60 4.11%	W-DWC: S-Operations	
May-09	\$3.79	\$0.23 6.46%	\$4.11	\$0.07 1.73%	\$39.50	\$1.50 3.95%	\$94.80	\$3.60 3.95%	W-DWC: S-Debt	
November-09	\$3.79	\$0.00 0.00%	\$4.41	\$0.30 7.30%	\$41.00	\$1.50 3.80%	\$98.40	\$3.60 3.80%	10¢ Ops; 20¢ Debt	
May-10	\$4.04	\$0.25 6.60%	\$4.41	\$0.00 0.00%	\$42.25	\$1.25 3.05%	\$101.40	\$3.00 3.05%	DWC & City of Chicago	
June-10	\$4.40	\$0.36 8.91%	\$4.41	\$0.00 0.00%	\$44.05	\$1.80 4.26%	\$105.72	\$4.32 4.26%	DWC & City of Chicago	
June-11	\$4.62	\$0.22 5.00%	\$4.41	\$0.00 0.00%	\$45.15	\$1.10 2.50%	\$108.36	\$2.64 2.50%	DWC & City of Chicago	
January-12	\$5.37	\$0.75 16.23%	\$4.41	\$0.00 0.00%	\$48.80	\$3.75 8.31%	\$117.36	\$8.00 8.31%	DWC & City of Chicago	
June-12	\$5.63	\$0.26 4.84%	\$4.41	\$0.00 0.00%	\$50.20	\$1.30 2.66%	\$120.48	\$3.12 2.66%	Policy Change/Ops	
June-12	\$5.81	\$0.18 3.35%	\$4.46	\$0.05 1.13%	\$51.35	\$1.15 5.01%	\$123.24	\$2.76 5.01%	Capital Projects	
January-13	\$6.45	\$0.64 11.02%	\$4.46	\$0.00 0.00%	\$54.55	\$3.20 6.23%	\$130.92	\$7.68 6.23%	DWC & City of Chicago	
January-14	\$7.15	\$0.70 10.85%	\$4.46	\$0.00 0.00%	\$58.05	\$3.50 6.42%	\$139.32	\$8.40 6.42%	DWC & City of Chicago	
January-15	\$7.92	\$0.77 10.77%	\$4.46	\$0.00 0.00%	\$61.90	\$3.85 6.63%	\$148.56	\$9.24 6.63%	DWC & City of Chicago	
September-17	\$8.01	\$0.09 1.14%	\$4.46	\$0.00 0.00%	\$62.35	\$0.45 0.73%	\$149.64	\$1.08 0.73%	DWC & City of Chicago	

[a] - Minimum bills were predicated on 8,000 gallons of consumption every two months. For comparison purposes, these years' "Minimum Bills" have been interpolated to reflect 5,000 gallons of consumption.

[b] - The minimum bill is for 5,000 gallons of consumption every two months.

[c] - The average bill is for both water consumption and sewer use. Amount is based on 6,000 gallons of consumption per month, billed bi-monthly, or a total of 12,000 gallons of water use.

Village of Bloomingdale  
Water & Sewer Rate History

03/23/18

NON-RESIDENTIAL (i.e. - Commercial) USERS -

Month-Year of Rate Change	Water		Sewer		Minimum [b]		Average [c]		Purpose
	per 1,000 gals	Change \$ %	per 1,000 gals	Change \$ %	Total \$	Change \$ %	Total \$	Change \$ %	
May-82	[a]	\$1.84	\$0.09	5.49%	\$2.03	\$0.12	5.91%	\$36.70	
July-84	[a]	\$1.73	\$0.11	6.36%	\$2.15	\$0.00	0.00%	\$38.80	
March-86	[a]	\$1.84	\$0.11	6.36%	\$2.15	\$0.00	0.00%	\$39.90	
September-86	[a]	\$1.84	\$0.00	0.00%	\$3.10	\$0.95	44.19%	\$49.40	
March-87	[a]	\$1.89	\$0.05	2.72%	\$3.10	\$0.00	0.00%	\$49.90	
March-88	[a]	\$1.94	\$0.05	2.65%	\$3.10	\$0.00	0.00%	\$50.40	
March-90	[a]	\$1.94	\$0.00	0.00%	\$3.00	(\$0.10)	-3.23%	\$49.40	
May-92		\$2.10	\$0.16	8.25%	\$2.45	(\$0.55)	-18.33%	\$45.50	
May-93		\$2.90	\$0.80	36.10%	\$3.38	\$0.93	37.96%	\$62.80	
May-94		\$3.19	\$0.29	10.00%	\$3.71	\$0.33	9.76%	\$69.00	
November-94		\$3.78	\$0.57	17.87%	\$3.14	(\$0.57)	-15.36%	\$69.00	
November-03		\$3.96	\$0.20	5.32%	\$3.34	\$0.20	6.37%	\$73.00	
November-04		\$3.96	\$0.00	0.00%	\$3.54	\$0.20	5.99%	\$75.00	
November-05		\$3.96	\$0.00	0.00%	\$3.74	\$0.20	5.65%	\$77.00	
November-06		\$3.96	\$0.00	0.00%	\$3.84	\$0.10	2.67%	\$78.00	
November-07		\$3.96	\$0.00	0.00%	\$3.94	\$0.10	2.60%	\$79.00	
November-08		\$4.16	\$0.20	5.05%	\$4.04	\$0.10	2.54%	\$82.00	
May-09		\$4.39	\$0.23	5.53%	\$4.11	\$0.07	1.73%	\$85.00	
November-09		\$4.39	\$0.00	0.00%	\$4.41	\$0.30	7.30%	\$88.00	
May-10		\$4.64	\$0.25	5.69%	\$4.41	\$0.00	0.00%	\$90.50	
June-10		\$5.00	\$0.36	7.76%	\$4.41	\$0.00	0.00%	\$94.10	
June-11		\$5.22	\$0.22	4.40%	\$4.41	\$0.00	0.00%	\$96.30	
January-12		\$5.97	\$0.75	14.37%	\$4.41	\$0.00	0.00%	\$103.80	
June-12		\$6.23	\$0.26	4.36%	\$4.41	\$0.00	0.00%	\$106.40	
June-12		\$6.41	\$0.18	3.02%	\$4.46	\$0.05	1.13%	\$108.70	
June-12		\$6.77	\$0.36	6.03%	\$4.46	\$0.00	0.00%	\$56.15	
January-13		\$7.41	\$0.64	9.45%	\$4.46	\$0.00	0.00%	(\$52.55)	
January-14		\$8.11	\$0.70	9.45%	\$4.46	\$0.00	0.00%	\$59.35	
January-15		\$8.88	\$0.77	9.49%	\$4.46	\$0.00	0.00%	\$3.20	
September-17		\$8.97	\$0.09	1.01%	\$4.46	\$0.00	0.00%	\$62.85	
					\$4.46	\$0.00	0.00%	\$66.70	
					\$4.46	\$0.00	0.00%	\$67.15	
					\$4.46	\$0.00	0.00%	\$7.50	
					\$4.41	\$0.00	0.00%	\$207.80	
					\$4.41	\$0.00	0.00%	\$15.00	
					\$4.41	\$0.00	0.00%	\$5.20	
					\$4.41	\$0.00	0.00%	\$4.80	
					\$4.46	\$0.00	0.00%	\$7.20	
					\$4.46	\$0.00	0.00%	\$12.80	
					\$4.46	\$0.00	0.00%	\$14.00	
					\$4.46	\$0.00	0.00%	\$15.40	
					\$4.46	\$0.00	0.00%	\$288.80	
					\$4.46	\$0.00	0.00%	\$1.80	

[a] - Minimum bills were predicated on a consumption factor other than 10,000 gallons every two months. For comparison purposes, these years' "Minimum Bills" have been interpolated to reflect 10,000 gallons of consumption.

[b] - Prior to 6/1/12 a minimum bill is based on 10,000 gallons of water use every two months; beginning 6/1/12 the minimum bill is for 5,000 gallons of consumption every two months.

[c] - The average bill is for both water consumption and sewer use. Amount is based on 10,000 gallons of consumption per month, billed bi-monthly, or a total of 20,000 gallons of water use.