

## **Enterprise Fund - Wastewater**

The Enterprise funds are used to account for the acquisition, operation and maintenance of City-owned utilities. Separate accounting and financial reporting of these municipal services allow for accountability of utility rates. The rates and fees charged for the service must be sufficient to provide for all operations and maintenance of the utility. Enterprise accounting allows the City to demonstrate the total cost of providing the service. Unlike, the General Fund, all direct and indirect costs, debt service and capital expenditures required to provide the service are reported within the fund so as to readily identify the true cost of the service. The existence of an enterprise fund does not create a separate or autonomous entity from the City. Like every other department, the budget is reviewed and analyzed by administration and finance.

The Batavia Wastewater Treatment Facility is a continuous aerobic biological treatment plant. There are 18 lift stations throughout the City that send wastewater back to the treatment plant through approximately 100 miles of sanitary sewer lines. There are approximately 9,100 sewer customers.

## **Wastewater Treatment and Sanitary Sewer Maintenance**

The Wastewater Division has the ultimate responsibility for treating all of the City's sanitary sewerage and combination storm water before returning it to the Fox River. Capital assets of the division include the treatment plant and 18 Lift Stations throughout the City. The treatment plant has many components, which include an excess flow facility, a headworks facility, primary and secondary clarifiers, aeration nitrification basins, ultraviolet disinfection equipment, anaerobic digesters and a sludge handling facility.

### ***Strategic Goals for Environmental Identity***

- **Integrate environmental principles into Utility operations**

The City contributes \$6,500 (\$0.25/capita) to the Fox River Study Group (FRSG). The FRSG is a coalition of stakeholders working to assess water quality issues in the Fox River watershed. These issues have a direct impact on the City's NPDES Permit. Funding for the FRSG is provided through various grants, IEPA and community contributions.

### ***Strategic Goals for Financial Sustainability***

- **Develop a five-year financial management plan**

A five-year capital improvement plan has been developed for expansion and upgrades.

- **Provide for the adequate maintenance of capital**

Phase I of the Wastewater Treatment Facility rehabilitation project began early in 2017. Several equipment and process items are being replaced and/or repaired due to long-term wear. These items are eligible for reimbursement through IEPA low interest loans once the loans are approved. Included in the 2018 "Professional Services" budget are several pieces of equipment that are at the end of their useful life.

Money has been budgeted in 2019 for beginning the process of designing Phase II of the Wastewater Treatment plant upgrade.

- **Deliver high quality City services that meet the needs of the community while continually working to control expenditures**
  - Optimize use of technology and foster innovation

In 2018, WWTP budgeted \$75,000 for SCADA upgrades. These upgrades originally included additional programming to the existing SCADA, Historical Data Access, Lift Station Flows etc. However, after much dialogue with our IS Department, it was decided that we needed to rebuild the system from the bottom up. This included servers, programming, tape backup etc. These upgrades will ensure a safer and more redundant system than in the past. Items to be included in the 2018 budget are: Programming, Historical Data Access, Lift Station Flow Database, etc.

- **Be proactive on legislative issues with financial implications for the City**

The City has been a member of the Fox River Study Group (FRSG) since its inception in 2001 and a City Staff member has been on the Board of Directors for the last 7-years. The FRSG meets monthly with IEPA, NGO's, Stakeholders (other NPDES Permit holders) and involved community members to formulate the

most cost-effective and science-based efforts to remove the Fox River from the Illinois Environmental Protection Agency's list of impaired waters (1998 303(d) list).

The most significant impact on the capital budget is the expansion/rehabilitation of the WWTP. It has been projected by the City's engineering consultants (Trotter & Associates, Inc.) that costs will be \$65-\$70 Million over the next 10-15 years. The WWTP project is being funded with IEPA low interest loans.

# City of Batavia 2019 Annual Budget

## Fund #31 — Wastewater Utility Summary

Description	Actual 2016	Actual 2017	Approved Budget 2018	Estimated 2018	Proposed Budget 2019
<b>Surplus and Reserves</b>	<b>\$2,423,607</b>	<b>\$2,264,930</b>		<b>\$5,267,442</b>	<b>\$6,789,421</b>
01 Utility Operating Revenues	\$5,039,934	\$5,433,377	\$5,555,850	\$5,581,272	\$5,774,725
02 Utility Nonoperating Revenues	\$160,669	\$84,581	\$45,500	\$41,670	\$42,500
06 Other Revenues	\$3,945	\$11,371	\$500	\$25,000	\$40,000
08 Bond/Loan Debt Proceeds	\$0	\$10,248,454	\$15,870,000	\$19,549,069	\$571,700
<b>Total Revenue</b>	<b>\$5,204,548</b>	<b>\$15,777,783</b>	<b>\$21,471,850</b>	<b>\$25,197,011</b>	<b>\$6,428,925</b>
Wastewater Improvements	\$1,335,059	\$8,762,878	\$15,975,000	\$19,611,069	\$520,000
Waste Water Treatment	\$2,508,756	\$2,554,650	\$2,714,851	\$2,680,108	\$2,776,227
Sanitary Sewer	\$657,736	\$593,596	\$847,589	\$514,965	\$1,991,315
Revenue Bond Payments	\$861,674	\$864,147	\$868,890	\$868,890	\$2,704,834
<b>Total Expense</b>	<b>\$5,363,225</b>	<b>\$12,775,271</b>	<b>\$20,406,330</b>	<b>\$23,675,032</b>	<b>\$7,992,376</b>
<b>Surplus/(Deficit)</b>	<b>( \$158,677)</b>	<b>\$3,002,512</b>	<b>\$1,065,520</b>	<b>\$1,521,979</b>	<b>( \$1,563,451)</b>
<b>Surplus and Reserves</b>	<b>\$2,264,930</b>	<b>\$5,267,442</b>		<b>\$6,789,421</b>	<b>\$5,225,970</b>

# City of Batavia 2019 Annual Budget

## Revenues

### Fund #31 — Wastewater Utility

Acct.	Description	Actual 2016	Actual 2017	Approved Budget 2018	Estimated 2018	Proposed Budget 2019
4710	Residential Sewer Charges	\$3,408,328	\$3,671,904	\$3,765,100	\$3,784,272	\$3,916,725
4715	Comm & Indust Sewer Charges	\$1,590,111	\$1,707,771	\$1,750,750	\$1,750,500	\$1,810,000
4721	Sewer Penalties	\$41,495	\$53,702	\$40,000	\$46,500	\$48,000
	<b>01 Utility Operating Revenues</b>	<b>\$5,039,934</b>	<b>\$5,433,377</b>	<b>\$5,555,850</b>	<b>\$5,581,272</b>	<b>\$5,774,725</b>
4725	Sewer Treatment Charges	\$29,090	\$15,795	\$30,000	\$16,300	\$17,000
4735	Sanitary Sewer Inspection	\$630	\$315	\$500	\$370	\$500
4740	Sewer Connections	\$130,949	\$68,471	\$15,000	\$25,000	\$25,000
	<b>02 Utility Nonoperating Revenues</b>	<b>\$160,669</b>	<b>\$84,581</b>	<b>\$45,500</b>	<b>\$41,670</b>	<b>\$42,500</b>
5000	Investment Income	\$3,945	\$11,371	\$500	\$25,000	\$40,000
	<b>06 Other Revenues</b>	<b>\$3,945</b>	<b>\$11,371</b>	<b>\$500</b>	<b>\$25,000</b>	<b>\$40,000</b>
4750	Bond/Loan Proceeds	\$0	\$10,248,454	\$15,870,000	\$19,549,069	\$571,700
	<b>08 Bond/Loan Debt Proceeds</b>	<b>\$0</b>	<b>\$10,248,454</b>	<b>\$15,870,000</b>	<b>\$19,549,069</b>	<b>\$571,700</b>
	<b>Total Revenue</b>	<b>\$5,204,548</b>	<b>\$15,777,783</b>	<b>\$21,471,850</b>	<b>\$25,197,011</b>	<b>\$6,428,925</b>

# City of Batavia 2019 Annual Budget

Fund # 31 — Wastewater Utility

Department #00 — Revenues

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## Detail on Significant Items

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### Account

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<b>4750</b>	<b>Bond/Loan Proceeds</b>		
	Area 3 Storm Sewer Separation - 50% Sewer		\$571,700
		<b>Total</b>	<b>\$571,700</b>

# City of Batavia 2019 Annual Budget

## Expenditures

**Fund #31 — Wastewater Utility**

**Department #81 — Wastewater Improvements**

<b>Acct.</b>	<b>Description</b>	<b>Actual</b>	<b>Actual</b>	<b>Approved</b>	<b>Estimated</b>	<b>Proposed</b>
		<b>2016</b>	<b>2017</b>	<b>Budget</b>	<b>2018</b>	<b>Budget</b>
				<b>2018</b>		<b>2019</b>
6445	Capital Equipment	\$0	\$172,375	\$75,000	\$45,000	\$75,000
6450	Vehicles & Equipment	\$0	\$0	\$30,000	\$17,000	\$0
6475	Wastewater Treatment Infrastructure	\$1,335,059	\$8,590,503	\$15,870,000	\$19,549,069	\$445,000
	<b>Wastewater Improvements</b>	<b>\$1,335,059</b>	<b>\$8,762,878</b>	<b>\$15,975,000</b>	<b>\$19,611,069</b>	<b>\$520,000</b>

# City of Batavia 2019 Annual Budget

Fund # 31 — Wastewater Utility

Department #81 — Wastewater Improvements

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## Detail on Significant Items

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### Account

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<b>6445</b>	<b>Capital Equipment</b>		
	SCADA for Lift Stations		\$75,000
		<b>Total</b>	<b>\$75,000</b>
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<b>6475</b>	<b>Wastewater Treatment Infrastructure</b>		
	Design Engineering Phase II Construction		\$300,000
	Repair/Replacement Grit Washer		\$30,000
	Updating Facility Plan		\$75,000
	Repair of Fine Screens in Headworks		\$25,000
	Replacement of Nitrification Air Line		\$15,000
		<b>Total</b>	<b>\$445,000</b>



# City of Batavia 2019 Annual Budget

## Expenditures

**Fund #31 — Wastewater Utility**

**Department #82 — Waste Water Treatment**

Acct.	Description	Actual	Actual	Approved	Estimated	Proposed
		2016	2017	Budget 2018	2018	Budget 2019
6101	Salaries and Wages	\$501,300	\$529,828	\$540,000	\$551,059	\$611,901
6102	Overtime	\$25,658	\$28,707	\$75,000	\$28,068	\$38,000
6103	Double-time	\$18,232	\$20,528	\$25,000	\$26,197	\$27,206
6104	Stand-by	\$40,377	\$39,459	\$42,000	\$36,862	\$38,283
6107	Part-time Wages	\$21,318	\$21,096	\$29,200	\$20,906	\$13,569
6120	City Health Ins Contribution	\$136,906	\$129,751	\$133,405	\$136,077	\$147,854
6121	City IMRF Pension Contribution	\$120,034	\$144,074	\$88,933	\$83,741	\$73,971
6122	City Share FICA and Medicare	\$46,729	\$47,274	\$54,407	\$50,727	\$55,765
6126	Workers Compensation Contrib	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
6205	Memberships	\$268	\$270	\$350	\$270	\$350
6210	Training & Seminars	\$1,677	\$2,962	\$3,800	\$2,691	\$3,800
6230	Office Supplies	\$522	\$585	\$950	\$600	\$5,000
6238	Lab Supplies	\$4,253	\$7,301	\$7,000	\$6,500	\$15,000
6241	Fuel	\$3,248	\$3,800	\$7,000	\$6,651	\$7,000
6248	Regulatory Fees	\$15,500	\$15,500	\$15,500	\$15,500	\$15,500
6250	Telephone	\$76,001	\$35,749	\$7,000	\$5,561	\$6,000
6255	Clothing & Uniforms	\$4,153	\$3,777	\$3,500	\$3,950	\$4,200
6258	Chemicals	\$21,153	\$26,069	\$150,000	\$90,000	\$100,000
6260	Utilities	\$506,578	\$497,496	\$525,000	\$545,000	\$550,000
6261	Safety Supplies	\$2,394	\$436	\$2,500	\$1,500	\$2,000
6264	General Supplies	\$3,482	\$3,685	\$4,000	\$4,000	\$4,000
6286	Landfill Fees	\$114,975	\$144,379	\$156,000	\$195,000	\$180,000
6310	R & M Vehicles	\$1,844	\$4,891	\$4,000	\$4,000	\$4,000
6315	R & M Building	\$8,701	\$7,225	\$25,000	\$36,900	\$30,000
6340	R & M Field Equipment	\$126,787	\$113,883	\$135,000	\$130,000	\$135,000
6351	Property & Liability Insurance	\$27,700	\$28,039	\$34,000	\$53,500	\$45,000
6355	Professional Services	\$31,780	\$61,162	\$34,758	\$33,300	\$15,750
6625	Bad Debt Expense	\$14,686	\$5,164	\$10,000	\$10,000	\$10,000
6629	Water/Sewer Metering	\$137,500	\$121,560	\$121,548	\$121,548	\$127,078
6630	General Fund Administration	\$485,000	\$500,000	\$470,000	\$470,000	\$500,000
	<b>Waste Water Treatment</b>	<b>\$2,508,756</b>	<b>\$2,554,650</b>	<b>\$2,714,851</b>	<b>\$2,680,108</b>	<b>\$2,776,227</b>

# City of Batavia 2019 Annual Budget

Fund # 31 — Wastewater Utility

Department #82 — Waste Water Treatment

## Detail on Significant Items

### Account

#### Personnel

- (1) Superintendent of Wastewater
- (1) Chief Operator
- (4) Wastewater Plant Operator
- (1) Lab Technician
- (1) PT Administrative Assistant

<b>6101</b>	<b>Salaries and Wages</b>	
	Requesting Full-Time Lab Technician. This position is needed due to new and additional lab procedures in NPDES Permit. Budgeted amount is for a partial year.	\$39,020
	Request for Administrative Assistant to increase to 40 hours - Position was increased in 2018 from 20 to 30 hours. Increase not funded.	\$0
	Salaries and Wages	\$572,881
	<b>Total</b>	<b>\$611,901</b>
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<b>6102</b>	<b>Overtime</b>	
	Increased overtime during construction. While Digesters are scheduled to be working by end of 2018, it appears rather unlikely. An additional \$10,000 in overtime is estimated for sludge removal.	\$38,000
	<b>Total</b>	<b>\$38,000</b>
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<b>6107</b>	<b>Part-time Wages</b>	
	Contract Lab Tech Until Full Time Lab Tech Starts	\$7,569
	Seasonal Worker	\$6,000
	<b>Total</b>	<b>\$13,569</b>

# City of Batavia 2019 Annual Budget

Fund # 31 — Wastewater Utility

Department #82 — Waste Water Treatment

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## Detail on Significant Items

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### Account

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**6230 Office Supplies**

Additional Office Furniture for New Admin Building	\$5,000
<b>Total</b>	<b>\$5,000</b>

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**6238 Lab Supplies**

Additional Lab Equipment for New Lab	\$15,000
<b>Total</b>	<b>\$15,000</b>

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**6248 Regulatory Fees**

IEPA NPDES Permit Fees	\$15,500
<b>Total</b>	<b>\$15,500</b>

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**6258 Chemicals**

Increased chemical costs due to new NPDES Phosphorous removal requirements.	\$100,000
<b>Total</b>	<b>\$100,000</b>

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**6315 R & M Building**

Various Lift Station Rehab	\$30,000
<b>Total</b>	<b>\$30,000</b>

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**6355 Professional Services**

Annual Backflow Prevention Testing	\$500
Out sourced Lab & Analysis	\$1,500
Contribution to Fox River Study Group	\$6,250
Various Professional Services	\$7,500
<b>Total</b>	<b>\$15,750</b>

# City of Batavia 2019 Annual Budget

## Expenditures

**Fund #31 — Wastewater Utility**

**Department #83 — Sanitary Sewer**

Acct.	Description	Actual	Actual	Approved	Estimated	Proposed
		2016	2017	Budget 2018	2018	Budget 2019
6101	Salaries and Wages	\$50,639	\$58,346	\$84,000	\$78,400	\$85,000
6102	Overtime	\$7,373	\$5,217	\$7,350	\$7,300	\$7,500
6103	Double-time	\$685	\$1,554	\$1,600	\$1,500	\$1,600
6120	City Health Ins Contribution	\$14,947	\$15,949	\$19,107	\$12,623	\$17,445
6121	City IMRF Pension Contribution	\$16,450	\$16,484	\$12,121	\$11,371	\$9,730
6122	City Share FICA and Medicare	\$4,808	\$4,668	\$7,111	\$6,671	\$7,199
6210	Training & Seminars	\$0	\$294	\$500	\$350	\$500
6240	Materials	\$1,257	\$1,048	\$1,000	\$850	\$1,200
6241	Fuel	\$2,456	\$2,815	\$2,300	\$2,650	\$2,900
6255	Clothing & Uniforms	\$610	\$845	\$800	\$700	\$800
6264	General Supplies	\$2,066	\$5,219	\$1,700	\$1,000	\$1,500
6268	Water/Sewer Meters	\$55,523	\$98,337	\$100,000	\$95,000	\$100,000
6276	Other Equipment	\$803	\$35,626	\$0	\$0	\$0
6310	R & M Vehicles	\$20	\$1,034	\$2,000	\$1,600	\$2,000
6340	R & M Field Equipment	\$4,064	\$4,455	\$5,000	\$5,000	\$5,500
6351	Property & Liability Insurance	\$0	\$0	\$5,000	\$1,250	\$1,250
6355	Professional Services	\$29,517	\$64,945	\$20,500	\$15,500	\$21,000
6380	Julie System	\$2,110	\$2,241	\$2,500	\$2,105	\$2,500
6450	Vehicles & Equipment	\$0	\$0	\$175,000	\$0	\$0
6473	Sanitary Sewer Capital	\$464,408	\$274,519	\$400,000	\$271,095	\$1,723,691
	<b>Sanitary Sewer</b>	<b>\$657,736</b>	<b>\$593,596</b>	<b>\$847,589</b>	<b>\$514,965</b>	<b>\$1,991,315</b>

# City of Batavia 2019 Annual Budget

Fund # 31 — Wastewater Utility

Department #83 — Sanitary Sewer

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## Detail on Significant Items

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### Account

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<b>6355</b>	<b>Professional Services</b>	
	Reimbursements/ Sewer Roddings	\$10,000
	Root Foaming	\$11,000
	<b>Total</b>	<b>\$21,000</b>
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<b>6473</b>	<b>Sanitary Sewer Capital</b>	
	CIPP Lining (Morton, S. Batavia Ave, Morton St. Alley)	\$150,000
	Design Engineering for Main St. CIPP Lining	\$47,950
	Ward 1 Sanitary Sewer Repairs/Replacements	\$35,000
	First St. Diversion Structure Rehabilitation	\$110,000
	General Consulting Engineering Services	\$20,000
	50% cost of Main Street Sewer Separation	\$789,041
	50% of Area 3 Sewer Separation	\$571,700
	<b>Total</b>	<b>\$1,723,691</b>

# City of Batavia 2019 Annual Budget

## Expenditures

**Fund #31 — Wastewater Utility**

**Department #98 — Revenue Bond Payments**

<b>Acct.</b>	<b>Description</b>	<b>Actual 2016</b>	<b>Actual 2017</b>	<b>Approved Budget 2018</b>	<b>Estimated 2018</b>	<b>Proposed Budget 2019</b>
6601	Principal Payment	\$779,355	\$797,752	\$816,662	\$816,662	\$2,136,084
6602	Interest Expense	\$82,319	\$66,395	\$52,228	\$52,228	\$568,750
	<b>Revenue Bond Payments</b>	<b>\$861,674</b>	<b>\$864,147</b>	<b>\$868,890</b>	<b>\$868,890</b>	<b>\$2,704,834</b>

# City of Batavia 2019 Annual Budget

Fund # 31 — Wastewater Utility

Department #98 — Revenue Bond Payments

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## Detail on Significant Items

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### Account

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<b>6601</b>	<b>Principal Payment</b>	
	GO Bond Series 2013 - Treatment Plant Due 11/01/2019	\$665,000
	GO Bond Series - Lift Station Due 11/01/2019	\$65,000
	Recovery Bonds Payment Due 12/15/2019	\$106,084
	First Principal on IEPA Loan Phase 1 WTP	\$650,000
	Principal on IEPA Loan for WTP (2nd payment)	\$650,000
	<b>Total</b>	<b>\$2,136,084</b>
<b>6602</b>	<b>Interest Expense</b>	
	GO Bond Series 2013 - Treatment Plant Due 05/01/2019	\$13,450
	GO Bond Series 2013 - Treatment Plant Due 11/01/2019	\$13,450
	GO Bond Series 2013 - Lift Station Due 05/01/2019	\$850
	GO Bond Series 2013 - Lift Station Due 11/01/2019	\$850
	Recovery Bonds Interest Due 06/15/2019	\$5,075
	Recovery Bonds Interest Due 12/15/2019	\$5,075
	First Interest Payment on IEPA Loan Phase 1 WTP	\$265,000
	Interest on IEPA Loan 2nd Payment	\$265,000
	<b>Total</b>	<b>\$568,750</b>