

Enterprise Fund - Water

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 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.

Batavia serves about 9,300 water customers. The City's water supply comes from five deep wells (three active and two on standby) and three shallow wells. Water is stored in three towers and treated at two water treatment plants. Water is transmitted from the treatment plants on the west side of the City through a cross-town water main and use of a booster pump station across the river.

Water and Sanitary Sewer Division

Services provided within the Water Fund (Fund 30) include the supply, treatment, and distribution of safe drinking water for all residential, commercial, and industrial customers. Services provided within the Wastewater Fund (Fund 31-83) include maintenance and improvements to the City's sanitary sewer conveyance system.

The Water and Sewer Division within the Public Works Department consists of a Superintendent, two field Crew Leaders, six Water/Sewer Maintenance Workers, a full-time and a part time Administrative Assistant. The Water and Sewer Superintendent directs all personnel within the Division and reports to the Director of Public Works. Water and Sewer Division staff provide services that are budgeted in both the Water (Fund 30) and Wastewater (Fund 31-83) enterprise funds.

The Water and Sewer Division strive to maintain and upgrade infrastructure assets to improve performance, optimize efficiencies and minimize operating costs. Although many of the large capital expenses are required to meet the Federal and Illinois EPA regulations, the compliance plans are as conservative as practical without compromising the quality of the work that needs to be completed.

During 2020, the Water Utility completed four (4) large-scale capital improvement projects. Each of these projects were completed in conjunction with other City capital projects. The Ward 1 Storm Sewer Replacement, Area 3 Storm Sewer Separation, S. Prairie St. Reconstruction, and Main St Reconstruction all involved replacement of water main and lead water service lines. Within each project, water mains were old and have experienced several catastrophic main breaks over the past decade, causing significant roadway and private property damages. Several areas also had undersized water main where larger diameter water main is needed for proper fire protection and improved water quality. The Sewer Utility completed the sanitary sewer separation on both Area 3 and Main St. in conjunction with the Engineering Division.

Capital projects proposed by the Water Utility in 2021 again include replacing water main in conjunction with the Ward 1 Storm Sewer Replacement due to several catastrophic failures. The Water Utility also propose replacing lead water service lines as part of an initiative funded by the IEPA. The City's Water Treatment Plants are also in need of capital improvements within several areas due to age and changing IEPA regulations.

In 2021, the Sewer Utility again propose rehabilitation of the conveyance system reducing inflow and infiltration, and CIPP Lining all sanitary sewer piping within the scope of Main St. from Water to Van Nortwick. Holy Cross force main replacement design engineering is also proposed because of several large failures along Main St.

Another major project will be continuation of an in-house, multi-year water meter change-out program. This shared expense between Water (Fund 30) and Wastewater (Fund 31-83) enterprise funds will replace outdated meters that are no longer supported and ensure meter reading accuracy.

City of Batavia 2021 Annual Budget

Fund #30 — Water Utility Summary

Description	Actual 2018	Actual 2019	Approved Budget 2020	Estimated 2020	Proposed Budget 2021
Surplus and Reserves	\$3,473,346	\$3,434,984		\$1,635,007	\$3,112,330
01 Utility Operating Revenues	\$4,629,561	\$4,695,543	\$4,728,500	\$4,895,715	\$4,978,875
02 Utility Nonoperating Revenues	\$141,994	\$273,665	\$76,000	\$97,625	\$102,625
06 Other Revenues	\$247,960	\$181,393	\$140,000	\$139,000	\$125,000
08 Bond/Loan Debt Proceeds	\$0	\$0	\$4,930,574	\$4,847,000	\$5,444,000
Total Revenue	\$5,019,515	\$5,150,601	\$9,875,074	\$9,979,340	\$10,650,500
Water Capital Improvements	\$847,037	\$2,595,206	\$5,842,167	\$4,237,706	\$7,196,871
Water Production	\$932,048	\$1,003,798	\$937,625	\$806,237	\$1,103,640
Water Distribution	\$2,346,294	\$2,404,487	\$2,646,828	\$2,529,959	\$2,561,152
Revenue Bond Payments	\$932,498	\$947,087	\$928,115	\$928,115	\$1,241,037
Total Expense	\$5,057,877	\$6,950,578	\$10,354,735	\$8,502,017	\$12,102,700
Surplus/(Deficit)	(\$38,362)	(\$1,799,977)	(\$479,661)	\$1,477,323	(\$1,452,200)
Surplus and Reserves	\$3,434,984	\$1,635,007		\$3,112,330	\$1,660,130

City of Batavia 2021 Annual Budget

Revenues

Fund #30 — Water Utility

Acct.	Description	Actual 2018	Actual 2019	Approved Budget 2020	Estimated 2020	Proposed Budget 2021
4610	Residential Water Sales	\$3,107,821	\$3,104,343	\$3,125,000	\$3,400,000	\$3,400,000
4615	Commercial/Industrial Sales	\$1,324,690	\$1,393,022	\$1,416,000	\$1,348,000	\$1,400,000
4616	Penalties	\$45,976	\$44,121	\$42,000	\$9,110	\$40,000
4630	Stand-by Water Fee	\$132,936	\$133,051	\$135,000	\$128,900	\$129,000
4634	Nonmetered Water	\$250	\$375	\$500	\$375	\$375
4667	Sale Of Bulk Water	\$17,888	\$20,631	\$10,000	\$9,330	\$9,500
	01 Utility Operating Revenues	\$4,629,561	\$4,695,543	\$4,728,500	\$4,895,715	\$4,978,875
4625	Labor & Materials Reimbursement	\$195	\$6,378	\$5,000	\$6,000	\$6,000
4640	Meter Sales	\$16,899	\$24,672	\$17,000	\$17,000	\$17,000
4645	Water Service Inspection	\$350	\$490	\$500	\$500	\$500
4648	Water Connection Fees	\$121,800	\$238,000	\$50,000	\$70,000	\$75,000
4650	Water Supply & Treatment	\$2,750	\$4,125	\$3,500	\$4,125	\$4,125
	02 Utility Nonoperating Revenues	\$141,994	\$273,665	\$76,000	\$97,625	\$102,625
4399	Reimb/Misc Revenue	\$190,586	\$101,307	\$105,000	\$104,000	\$105,000
5000	Investment Income	\$57,374	\$80,086	\$35,000	\$35,000	\$20,000
	06 Other Revenues	\$247,960	\$181,393	\$140,000	\$139,000	\$125,000
4750	Bond/Loan Proceeds	\$0	\$0	\$4,930,574	\$4,847,000	\$5,444,000
	08 Bond/Loan Debt Proceeds	\$0	\$0	\$4,930,574	\$4,847,000	\$5,444,000
	Total Revenue	\$5,019,515	\$5,150,601	\$9,875,074	\$9,979,340	\$10,650,500

City of Batavia 2021 Annual Budget

Fund # 30 — Water Utility

Department #00 — Revenues

Detail on Significant Items

Account

4750	Bond/Loan Proceeds	
	IEPA Loan for Water Treatment Plant	\$3,250,000
	100% Forgiveable Loan for Lead Service Lines	\$2,194,000
	Total	\$5,444,000

City of Batavia 2021 Annual Budget

Expenditures

Fund #30 — Water Utility

Department #71 — Water Capital Improvements

Acct.	Description	Actual 2018	Actual 2019	Approved Budget 2020	Estimated 2020	Proposed Budget 2021
6450	Vehicles & Equipment	\$68,135	\$0	\$50,000	\$45,000	\$60,000
6472	Building Improvements	\$0	\$0	\$171,800	\$0	\$140,260
6476	Water Infrastructure	\$778,902	\$2,595,206	\$5,620,367	\$4,192,706	\$6,996,611
	Water Capital Improvements	\$847,037	\$2,595,206	\$5,842,167	\$4,237,706	\$7,196,871

City of Batavia 2021 Annual Budget

Fund # 30 — Water Utility

Department #71 — Water Capital Improvements

Detail on Significant Items

Account

6450	Vehicles & Equipment	
	Hydro-Excavator (Water Share)	\$60,000
	Total	\$60,000
6472	Building Improvements	
	PW Building Roof	\$120,260
	PW Floor Drain	\$20,000
	Total	\$140,260
6476	Water Infrastructure	
	WTP Rehabilitation - Bidding & Construction Eng.	\$200,000
	Batavia/Geneva Interconnect (Fabyan & Louis Bork)	\$66,000
	Ward 1 Construction (\$669,000) and CE (\$49,000)	\$718,000
	Prarie St. WM Stage 2 - Design Eng.	\$6,611
	Main St. WM balance of Construction Eng.	\$10,000
	Lead Service-Design (100% Reimb. if approved)	\$79,000
	Lead Service Lines Eng & Construction (100% Reimb.)	\$2,127,000
	WTP Rehabilitation (IEPA Loan)	\$3,425,000
	SE EWST Chlorine Booster Station	\$365,000
	Total	\$6,996,611

City of Batavia 2021 Annual Budget

Expenditures

Fund #30 — Water Utility

Department #72 — Water Production

Acct.	Description	Actual 2018	Actual 2019	Approved Budget 2020	Estimated 2020	Proposed Budget 2021
6249	Production Electricity	\$485,068	\$464,388	\$485,000	\$452,000	\$485,000
6250	Telephone	\$14,658	\$6,091	\$7,000	\$6,970	\$7,000
6258	Chemicals	\$158,982	\$178,288	\$170,000	\$185,000	\$180,000
6260	Utilities	\$4,545	\$3,756	\$5,000	\$4,244	\$5,000
6264	General Supplies	\$5,510	\$3,051	\$7,000	\$5,600	\$7,000
6276	Other Equipment	\$6,117	\$21,245	\$19,500	\$6,000	\$20,000
6315	R & M Building	\$19,184	\$14,627	\$10,000	\$8,790	\$10,000
6340	R & M Field	\$194,776	\$214,270	\$151,125	\$93,600	\$275,840
6355	Professional Services	\$43,208	\$98,082	\$83,000	\$44,033	\$113,800
	Water Production	\$932,048	\$1,003,798	\$937,625	\$806,237	\$1,103,640

City of Batavia 2021 Annual Budget

Fund # 30 — Water Utility

Department #72 — Water Production

Detail on Significant Items

Account

6276	Other Equipment	
	Dehumidifier Replacement WTP #1 (4)	\$15,000
	Misc. Equipment & Repairs	\$5,000
	Total	\$20,000
6340	R & M Field	
	R&M Telemetry, Generator, Filtration	\$20,000
	R&M Booster Pumps	\$15,000
	Factory-Talk Integration	\$73,000
	SCADA system updates	\$50,000
	Software Maintenance	\$3,840
	Well # 4 Abandonment & Capping (Mandated by IEPA)	\$95,000
	Well #4 Abandonment-Design Eng. & Bidding	\$19,000
	Total	\$275,840
6355	Professional Services	
	Water Analysis Equipment Maintenance & Calibration	\$8,500
	Laboratory Analysis	\$27,000
	Alarm and Monitoring Services	\$3,300
	Sludge Removal and Remediation Services	\$25,000
	Engineering & Consultation Services	\$15,000
	Iron Lagoon Cleaning & Disposal	\$35,000
	Total	\$113,800

City of Batavia 2021 Annual Budget

Expenditures

Fund #30 — Water Utility

Department #73 — Water Distribution

Acct.	Description	Actual	Actual	Approved	Estimated	Proposed
		2018	2019	Budget 2020	2020	Budget 2021
6101	Salaries and Wages	\$845,876	\$882,544	\$906,359	\$909,086	\$933,214
6102	Overtime	\$53,397	\$51,525	\$48,700	\$46,300	\$47,458
6103	Double-time	\$25,756	\$37,132	\$35,000	\$44,200	\$45,305
6104	Stand-by	\$42,128	\$41,392	\$42,900	\$42,800	\$43,870
6107	Part-time Wages	\$7,260	\$8,970	\$7,500	\$0	\$7,500
6120	City Health Ins Contribution	\$197,729	\$227,342	\$219,330	\$211,907	\$220,385
6121	City IMRF Pension Contribution	\$131,801	\$106,952	\$132,425	\$133,634	\$136,299
6122	City Share FICA and Medicare	\$77,880	\$73,098	\$79,595	\$79,743	\$82,417
6126	Workers Compensation Contrib	\$15,000	\$15,000	\$25,000	\$25,000	\$25,000
6205	Memberships	\$2,122	\$2,109	\$2,600	\$2,200	\$2,600
6210	Training & Seminars	\$9,879	\$10,699	\$10,000	\$500	\$10,000
6215	Resource Materials	\$762	\$1,090	\$850	\$500	\$900
6225	Postage & Shipping	\$5,661	\$6,830	\$6,500	\$3,500	\$6,500
6230	Office Supplies	\$4,187	\$2,020	\$4,500	\$3,500	\$4,000
6233	Vehicle & Equip. Supplies	\$10,343	\$10,052	\$13,000	\$11,000	\$10,000
6240	Materials	\$22,855	\$16,947	\$20,000	\$17,000	\$18,000
6241	Fuel	\$15,714	\$16,704	\$16,500	\$14,570	\$16,500
6250	Telephone	\$720	\$720	\$720	\$720	\$720
6255	Clothing & Uniforms	\$7,303	\$8,636	\$6,000	\$4,500	\$6,000
6259	Meals & Refreshments	\$1,476	\$2,068	\$1,800	\$2,250	\$2,000
6260	Utilities	\$11,740	\$11,096	\$11,000	\$11,000	\$11,000
6264	General Supplies	\$13,365	\$20,174	\$18,000	\$24,000	\$20,000
6268	Water/Sewer Meters	\$99,973	\$106,518	\$100,000	\$100,000	\$100,000
6276	Other Equipment	\$2,656	\$1,588	\$6,500	\$6,300	\$10,650
6281	Piping,Fittings,Hydrants	\$69,336	\$50,591	\$63,000	\$64,200	\$63,000
6310	R & M Vehicles	\$5,355	\$6,211	\$6,300	\$3,000	\$6,500
6315	R & M Building	\$34,497	\$100,990	\$58,800	\$22,000	\$35,666
6340	R & M Field	\$2,998	\$9,573	\$5,000	\$2,500	\$5,000
6351	Property & Liability Insurance	\$26,209	\$24,065	\$29,400	\$29,400	\$60,000
6355	Professional Services	\$92,782	\$91,748	\$220,500	\$170,500	\$195,668
6365	Landfill Fees	\$3,003	\$0	\$5,000	\$2,800	\$5,000
6625	Bad Debt Expense	\$9,718	\$1,499	\$10,000	\$7,300	\$10,000
6627	SS Share Water Salaries	\$-74,735	\$-128,474	\$-138,897	\$-138,897	\$-275,000
6629	Water/Sewer Metering	\$121,548	\$127,078	\$122,946	\$122,946	\$120,000
6630	General Fund Administration	\$450,000	\$460,000	\$550,000	\$550,000	\$575,000
Water Distribution		\$2,346,294	\$2,404,487	\$2,646,828	\$2,529,959	\$2,561,152

City of Batavia 2021 Annual Budget

Fund # 30 — Water Utility

Department #73 — Water Distribution

Detail on Significant Items

Account

Personnel

- (1) Superintendent of Water/Sewer
- (2) Water/Sewer Crewleader
- (6) Water/Sewer Maintenance Worker
- (1) Administrative Assistant
- (1) PT Administrative Assistant

6276 Other Equipment

Drone & Software- PW CIP Oversight (1/3 share)	\$7,900
Updated WM & SS Locating Equipment (50% in SS)	\$2,750
Total	\$10,650

6355 Professional Services

Risk & Resilience Assessment/Emergency Response Plan (Mandated by AWIA)	\$45,000
Emergency Leak Detection	\$10,000
Valve Exercising Program	\$33,000
Pavement/Concrete Restoration	\$8,000
Leak Detection Program	\$33,000
Water Gems Software (Water System Hydraulic Modeling)	\$50,000
Plumbing repairs/reimbursments	\$2,500
Pest Control	\$2,000
JULIE Services	\$4,500
Vue-Works Upgrade	\$6,500
Vue-Works Maintenance	\$1,168
Total	\$195,668

City of Batavia 2021 Annual Budget

Fund # 30 — Water Utility

Department #73 — Water Distribution

Detail on Significant Items

Account

6627	SS Share Water Salaries	
	Sanitary Sewer Work Performed by Water Department	\$-275,000
	Total	\$-275,000

City of Batavia 2021 Annual Budget

Expenditures

Fund #30 — Water Utility

Department #98 — Revenue Bond Payments

Acct.	Description	Actual 2018	Actual 2019	Approved Budget 2020	Estimated 2020	Proposed Budget 2021
6601	Principal Payment	\$773,793	\$789,831	\$811,148	\$811,148	\$1,010,558
6602	Interest Expense	\$158,705	\$157,256	\$116,967	\$116,967	\$230,479
	Revenue Bond Payments	\$932,498	\$947,087	\$928,115	\$928,115	\$1,241,037

City of Batavia 2021 Annual Budget

Fund # 30 — Water Utility

Department #98 — Revenue Bond Payments

Detail on Significant Items

Account

6601	Principal Payment	
	2013 GO Bonds - Transmission Main Due 11/01/2021	\$355,000
	L17-2420 IEPA Treatment Plant Due 05/01/2021	\$95,122
	L17-2420 IEPA Treatment Plant Due 11/01/2021	\$96,311
	L17-2546 IEPA Booster Station Due 05/01/2021	\$14,792
	L17-2546 IEPA Booster Station Due 11/01/2021	\$14,977
	L17-2262 IEPA Storage Towers Due 03/26/2021	\$82,329
	L17-2262 IEPA Storage Towers Due 09/26/2021	\$83,358
	L17-2304 IEPA Wells 10 & 11 Due 03/26/2021	\$42,663
	L17-2304 IEPA Wells 10 & 11 Due 09/26/2021	\$43,196
	2020 GO Watermain Bonds Due 1/1/2022	\$150,000
	IEPA 4627 Area 3 Projected Principal	\$32,810
	Total	\$1,010,558
6602	Interest Expense	
	2013 GO Bonds - Transmission Main Due 05/01/2021	\$22,574
	2013 GO Bonds - Transmission Main Due 11/01/2021	\$22,574
	L17-2420 IEPA Treatment Plant Due 05/01/2021	\$9,939
	L17-2420 IEPA Treatment Plant Due 11/01/2021	\$8,750
	L17-2546 Booster Station Due 05/01/2021	\$1,546
	L17-2546 Booster Station Due 11/01/2021	\$1,361
	L17-2262 IEPA Storage Towers Due 03/26/2021	\$13,235
	L17-2262 IEPA Storage Towers Due 09/26/2021	\$12,206
	L17-2304 IEPA Wells 10 & 11 Due 03/26/2021	\$6,858
	L17-2304 IEPA Wells 10 & 11 Due 09/26/2021	\$6,325
	2020 GO Watermain Bonds Due 7/1/2020	\$69,111
	2020 GO Watermain Bonds Due 1/1/2022	\$40,000
	IEPA 4627 Area 3 Projected Interest	\$16,000

City of Batavia 2021 Annual Budget

Fund # 30 — Water Utility

Department #98 — Revenue Bond Payments

Detail on Significant Items

Account

Total \$230,479