

**DEPARTMENT**      STORMWATER UTILITY  
FUND 77

**Program Description**

The Stormwater Utility was created in 2006 to address various challenges, requirements and increasing state and federal regulations with regards to stormwater management within the Village. The utility is responsible for the operation, maintenance, and improvement of stormwater management systems and will work in conjunction with private landowners to implement measures and practices to help ensure water quality and prevent erosion and other damage caused by flooding.

The Village's stormwater control system is made up of approximately 18 miles of mains, 290 manholes, 700 catch basins and 239 inlets to or outlets from the storm system and approximately 92 ponds, kettles or wetland areas that act as stormwater management ponds for Village developments. Staff created a system map of the stormwater system showing the locations of pipes, manholes, catch basins and inlets and discharges from the storm system. This map is being updated and expanded on as part of the Wisconsin DNR stormwater grant to include delineation of all the drainage subbasins and ponds or other treatment structures.

The Stormwater Utility charges for stormwater based on the total area of impervious surface consisting of buildings, asphalt and gravel parking lots, driveways, sidewalks, and accessory structures on its property. The typical charge for stormwater is based on the Equivalent Runoff Unit (ERU). One ERU is 4,300 square feet of impervious surface area and residential properties are charged one ERU while non-residential properties are charged for the equivalent number of ERU's based on the total square footage of impervious surface on its property.

**2019 Accomplishments**

- Reconstructed failing catch basin and storm manhole chimneys along several Village roadways. The list of catch basins needing reconstruction or repair was generated by utility staff while they were cleaning out catch basins.
- Inspected and tuckpointed catch basins at various locations throughout the Village.
- Completed the reconstruction of the St. Paul Subdivision. The project was completed with new curb and gutters and a system of perforated storm sewers and stone infiltration trenches that should provide stormwater treatment for this subdivision that lacks treatment ponds. Based on heavy rains during construction, this unique treatment system should function very well.
- Completed the DNR Urban Non-Point Source Planning Grant working jointly with Ruekert/Mielke on the project.

- Contracted with Ruckert/Mielke to provide inspections of priority stormwater outfalls as defined by the Wisconsin Department of Natural Resources. The services provided inspection of 30 priority outfalls and 40 stormwater treatment facilities. Services included inspection of the devices, maintenance recommendations, and sample collection and testing for a variety of pollutants as defined by the DNR.
- Began cleaning and televising the existing storm sewer system. This will allow us to analyze the system for deficiencies, illegal connections and plan upgrades that may be needed.
- Contracted with RA Smith to survey and provide cursory inspection of the main stormwater flow paths through the Village.

### **2020 Objectives**

- Continue with cleaning and televising the existing storm sewer system and catch basins.
- Reconstruct the Hartford Road from Kettle Moraine Drive to the Town of Hartford. Specific attention will focus on providing unique stormwater treatment devices, such as utilized in the St. Paul Subdivision, in an area of the Village shown by modeling to be deficient.
- Include improvements within Howard Avenue to replace the backyard storm sewer through this area.
- Work with WeldFab to improve the stormwater management within the property and in the James Street area in general.
- Continue implementing the requirements set forth by the DNR for the Village of Slinger in the Wisconsin Pollutant Discharge Elimination System (WPDES) Permit Number WI-S0050181-1. The next phase of this permit requires us to begin inspecting and sampling existing drainage facilities and analyze the samples for the following parameters:
  - Visually observing stormwater discharges for color, odor, turbidity, oil sheen and surface scum.
  - Testing stormwater discharges for pH, total chlorine, total copper, total phenol, detergents, ammonia, potassium and fluorides.
  - Inspecting and eliminating all cross connections from the sanitary sewer system.
  - Updating, inspecting and enforcing the construction site erosion and stormwater regulations.
  - Increase the occurrences of street sweeping, storm sewer and catch basin cleaning and disposal of materials in regulated disposal sites.

- Monitoring, calibrating, reporting and reducing the quantity of road salt used during winter operations. Also we will be required to monitor and report on snow removal and disposal and ensure that state regulations are being followed.
  - Proper management and disposal of leaves within the community along with a report of practices and disposal sites utilized.
  - Inspecting and reporting and retrofitting all municipally owned properties for reduction of stormwater discharges and pollution.
  - Regulating and reporting on the application of turf and garden fertilizers on municipal properties.
  - Follow environmentally sensitive land design on all municipal projects, including green infrastructure and low impact development.
  - Develop and implement an educational outreach to the community.
  - Additionally, the entire municipal area must be delineated by drainage basin, stormwater system and location and volume of discharge. The system must be modeled to determine the amount of pollutants discharged under the “no controls” scenario and the “existing controls” scenario to determine the pollutant removal goals that will be required for the Village.
  - Annually report on the stormwater program to the Wisconsin DNR. The report must document actions and enforcements and progress being made on the DNR required improvements related to the program outlined above. The timeline will be developed as part of the stormwater grant.
- Replace curb and gutter at various locations to remedy known drainage problems.

### **Staffing**

For the first 12 years of its operation, the Stormwater Utility did not include any staffing authorizations. The other utilities and public works were basically subsidizing those costs in an attempt to keep costs low and allow the new utility to get established. Now that the utility has achieved an adequate and steady revenue source, it needs to begin accounting for actual labor costs. The new expense line titled “Operations Wages” includes 25% of Utility Operator wages and 10% of Public Works Operator wages. The Stormwater Utility also pays 20% of the Engineer’s salary and 20% of the Superintendent of Utilities under “Admin & General Salaries”.

### **Account Detail**

46430-410 – Stormwater Fees: The annual stormwater fee is set at \$100.00/ERU (Equivalent Runoff Unit). This rate was set in 2017 and took effect in January 2018.

- 53440-300 – Supplies & Expense: This account monitors the costs of daily operations such as utility locates, customer account maintenance and smaller repairs to the system.
- 53610-831 – Maintenance of Collection System: This item pays for larger maintenance work performed on the stormwater system. This would include catch basin repair, debris removal, and curb and gutter work.
- 53613-852 – Outside Services: The new amount listed for this expense is for the costs associated with implementing the Utility's MS4 permit with the DNR. Additional assistance will be required to complete the system mapping project.

**PROPOSED 2020 BUDGET  
STORMWATER UTILITY FUND 77 - REVENUES**

	<b>2018 ACTUAL</b>	<b>2019 ACTUAL</b>	<b>PROJECTED</b>	<b>2019</b>	<b>2020</b>	
	<b>7/31/2018</b>	<b>7/31/2019</b>	<b>YEAR-END</b>	<b>AMENDED</b>	<b>PROPOSED</b>	<b>% CHANGE</b>
				<b>BUDGET</b>	<b>BUDGET</b>	
770-46411-000-456 OTHER OPERATING INCOME	17.12	4.40	4.40	-		
770-46430-000-410 STORMWATER FEES	225,872.12	229,363.40	458,726.80	420,000.00	424,000.00	0.95%
770-46431-000-450 FORFEITED DISCOUNTS	598.37	(681.15)	283.00	800.00	800.00	0.00%
770-48110-000-000 STORMWATER INTEREST INCOME	946.96	2,791.40	5,582.80	1,500.00	5,000.00	233.33%
<b>TOTAL FUND REVENUE</b>	<b>227,434.57</b>	<b>231,478.05</b>	<b>464,597.00</b>	<b>422,300.00</b>	<b>429,800.00</b>	<b>1.78%</b>

**PROPOSED 2020 BUDGET  
STORMWATER UTILITY FUND 77 - EXPENDITURES**

	<b>2018 ACTUAL</b>	<b>2019 ACTUAL</b>	<b>PROJECTED</b>	<b>2019</b>	<b>2020</b>	
	<b>7/31/2018</b>	<b>7/31/2019</b>	<b>YEAR-END</b>	<b>AMENDED</b>	<b>PROPOSED</b>	<b>% CHANGE</b>
				<b>BUDGET</b>	<b>BUDGET</b>	
770-53100-101-000 ADMIN & GENERAL SALARIES	13,343.49	18,165.15	31,140.26	25,997.66	25,998.00	0.00%
770-53100-102-000 OPERATIONS WAGES	-	37,693.83	64,617.99	70,451.69	70,452.00	0.00%
770-53440-130-000 SOCIAL SECURITY TAX	973.14	4,096.26	7,022.16	7,478.37	7,478.00	0.00%
770-53440-132-000 RETIREMENT	924.17	3,677.93	6,305.02	6,417.43	6,417.00	-0.01%
770-53440-133-000 INS & BENEFITS	3,665.65	13,818.40	23,688.69	20,365.00	20,845.00	2.36%
770-53440-300-000 SUPPLIES & EXPENSE	3,585.10	12,321.32	21,122.26	25,000.00	25,000.00	0.00%
770-53440-345-000 CENTRAL EQUIPMENT RENT	14,000.00	14,280.00	28,560.00	28,560.00	28,560.00	0.00%
770-53440-590-000 DEPR EXPENSE	134,470.94	134,408.17	134,408.17	134,471.00	134,471.00	0.00%
770-53610-000-827 CENTRAL SERVICES & BUILDING	16,644.50	17,539.50	35,079.00	35,079.00	35,079.00	0.00%
770-53611-000-831 MAINT OF COLLECT SYSTEM	16,143.40	23,464.54	40,224.93	50,000.00	50,000.00	0.00%
770-53613-000-852 OUTSIDE SERVICES	3,349.70	14,832.05	25,426.37	20,000.00	25,000.00	25.00%
770-53770-000-928 REG COMM EXPENSE	500.00	500.00	857.14	500.00	500.00	0.00%
770-57100-000-971 STORMWATER MAN PROG	27,101.14	8,936.60	8,936.60	-		
<b>TOTAL FUND EXPENDITURES</b>	<b>234,701.23</b>	<b>303,733.75</b>	<b>427,388.59</b>	<b>424,320.15</b>	<b>429,800.00</b>	<b>1.29%</b>
<b>NET REVENUE OVER EXPENDITURES</b>	<b>(7,266.66)</b>	<b>(72,255.70)</b>	<b>37,208.41</b>	<b>(2,020.15)</b>	<b>-</b>	