In 2018, DuPage County Stormwater Management accomplished a number of initiatives to promote government efficiency in our flood control and water quality efforts.

Notably, DuPage County entered into agreements with 41 municipalities and townships to improve our local streams, while also saving taxpayer money. In an effort to consolidate Clean Water Act requirements, Stormwater Management formed a countywide water quality program. By reducing regulatory redundancies and assisting in local projects, the program is saving local communities in compliance costs, as well as aligning water quality goals countywide.

In conjunction with the countywide water quality program, communities are also utilizing Stormwater Management’s crew and equipment for both scheduled and emergency maintenance. These shared services are reducing the communities’ need for heavy equipment and full-time staff.

Finally, Stormwater Management took on the County’s Unincorporated Residential Drainage Program in 2018. Using primarily in-house resources, we are able to assist residents in local drainage issues and projects.

We invite you to learn more about these and other initiatives in the following annual report. We are excited for everything we accomplished in 2018, and we look forward continuing to be a leader in stormwater management in the region in 2019.

Sincerely,

Jim Zay, Chairman
Stormwater Management Planning Committee
DuPage County Stormwater Management plans, designs and constructs regional flood control, wetland restoration and water quality projects countywide.

Stormwater Management completed the **Graue Mill Flood Control Improvement Project** in Hinsdale, adjacent to Salt Creek. Consisting of a series of flood control measures such as storm sewer, floodgates and berms, the project will protect the area from repetitive flooding.

Stormwater Management completed the **Redmond Reservoir Expansion Project** in Bensenville. Funded by HUD, the project provided an additional 6.5 million gallons of floodwater detention, along with associated restoration and pump station upgrades.

Stormwater Management completed an expansion of the **Liberty Park Drainage Facility**, located in Westmont. The system features three reservoirs with a capacity of 4.5 million gallons, four pump stations and storm sewer to divert and hold floodwater.

**Shared Services**

In 2018, Stormwater Management developed a **Shared Services Division** to assist local communities in initiatives ranging from spill cleanup to storm sewer televising to catch basin and storm sewer cleaning. When needed, communities are utilizing the County’s crew and equipment for both scheduled and emergency maintenance.
To identify countywide projects, DuPage County Stormwater Management works with local agencies to develop watershed plans with both flood mitigation and water quality recommendations.

**Flood Control Plans**

- The DuPage County Stormwater Management Planning Committee approved the Sugar Creek Watershed Plan to alleviate flooding within portions of Lombard, Villa Park and unincorporated DuPage County. The Committee selected a suite of flood control projects the County and local communities can pursue as funding becomes available.

- Stormwater Management is also studying the St. Joseph Creek and Winfield Creek watersheds to identify flood control opportunities, as well as collaborating with the U.S. Army Corps of Engineers on a study of the entire DuPage River Corridor.

**Floodplain Mapping**

- DuPage County’s updated floodplain maps, a multi-year modeling effort, will become effective in mid-2019. During final public review, FEMA, the Illinois State Water Survey and Stormwater Management resolved more than 120 comments and one appeal to the maps.

- Using in-house resources, Stormwater Management completed hydraulic modeling and floodplain mapping of Tributary No. 5 to the West Branch DuPage River. These efforts will result in a floodplain map revision.

**Water Quality Plans**

- Stormwater Management began working on a water quality study of the entire East Branch DuPage River Watershed to identify water quality improvement projects.

- The Lower Salt Creek Watershed Plan was substantially completed.
DuPage County Stormwater Management maintains and operates 17 flood control facilities countywide. In total, these facilities have the capacity to divert nearly 6 billion gallons of floodwater.

**Flood Control Operations**

Stormwater Management staff operated the County’s larger flood control facilities six times in 2018. Four operations occurred in May when the County received 5.5 to 12 inches of rain that month. Smaller, gravity-operated facilities took in floodwater as needed throughout the year.

**Flood Control Facilities**

In 2018, Stormwater Management took over the County’s Unincorporated Residential Drainage Program. With it, the department now maintains and operates two mechanically-assisted drainage facilities, 15 gravity-operated facilities and 67 lots.

Stormwater Management replaced the gate that allows floodwater to flow into the Spring Creek Reservoir in Bloomingdale, as well as updated existing controls. This will ensure long-term functionality and save on operation costs.
DuPage County Stormwater Management fosters partnerships between local agencies, organizations and residents to help advance water quality goals throughout the region.

In an effort to consolidate Clean Water Act requirements, Stormwater Management entered into partnerships with 41 municipalities and townships to form a countywide water quality program. This program is aligning water quality goals countywide through shared planning, projects and training, including two annual seminars attracting nearly 200 partners each.

In partnership with SCARCE and The Conservation Foundation, placed 2,500 storm drain medallions, with 30 on the County campus.

In partnership with the City of Elmhurst, filmed a local show informing the community about flood control in DuPage County.

In partnership with SCARCE, awarded 6 Water Quality Flags. To date, 21 institutions have received a flag with another 11 working toward it.

**In the Community**

- More than 8,000 E-Newsletter Subscribers
- More than 700 Social Media Followers
- 18 YouTube Videos with Nearly 13,000 Views
- Recruited More than 60 Groups to be Stewards
- Participated in or Sponsored over 60 Events
- SWM Events Attracted Nearly 2,000 Attendees
Staff across all of DuPage County Stormwater Management’s divisions accomplished a significant amount in 2018.

**Regulatory**
- Performed 330 stormwater management permit reviews for development in the County.
- Issued 124 stormwater authorizations and certifications.
- Monitored 305 wetland mitigation and enhancement projects.
- Granted regulatory sign-off on 40 wetland mitigation and enhancement sites.
- Performed vegetation monitoring on approximately 103 County-owned sites.
- Unincorporated DuPage County became a FEMA Community Rating System (CRS) community with a rating of 6, saving residents up to 20% on their flood insurance premiums.

**Water Quality**
- Inventoried and monitored 754 storm sewer outfalls for the Illicit Discharge Detection and Elimination (IDDE) program.
- Awarded $335,000 in funding under the Water Quality Improvement Program Grant to:
  - Village of Carol Stream
  - Village of Clarendon Hills
  - Glen Ellyn Park District
  - Oak Brook Park District
  - City of Wood Dale

**Flood Mitigation**
- Field crew managed nearly 180 County-owned properties.
- Removed 17 major stream blockages to alleviate flooding.

Using federal funds, Stormwater Management purchased 4 flood-prone properties to return to open space. Prior to demolition, local fire and police held training exercises in many of the properties. In total, the County has purchased 30 homes in recent years.