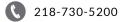


## Engineering



Room 240 411 West First Street Duluth, Minnesota 55802

# **2022 MS4 Stormwater Pollution Prevention Overview**

## What is an MS4?

MS4 stands for Municipal Separate Storm Sewer System and is the network of stormwater drainage infrastructure that the City of Duluth owns and maintains to collect and convey stormwater runoff. Stormwater is typically conveyed through an MS4 into and directly into a receiving water. Receiving waters in the City of Duluth include Lake Superior, St. Louis Bay Estuary and many local streams. Stormwater runoff is separate from Sanitary Sewer from households. Sanitary sewer flows are conveyed through a separate system to WLSSD for treatment.

## **Pollution Prevention**

Pollution prevention practices are needed because stormwater runoff is largely untreated before flowing to receiving waters. The City of Duluth employs a number of methods to target pollution prevention through guidelines set by the MPCA in the City's MS4 Permit. These guidelines are broken into six (6) Minimum Control Measures (MCMs). The City performs, and partners with other agencies, on actions to prevent pollution along these guidelines.

## **City of Duluth MCMs**

## 1. Public Education and Outreach

Each year the City of Duluth partners with local area agencies and authorities to distribute messages about pollution prevention in stormwater through a collaborative group named the Regional Stormwater Protection Team (RSPT). Some of these messages include a direct focus on smart salting to reduce impacts of the use of chlorides as a deicer, keeping leaf litter off of the street and out of catch basins, and messages on picking up after pets to improve water quality. For more information visit – <u>https://sites.google.com/view/rspt/home</u> and <u>https://www.lakesuperiorstreams.org/stormwater/rspt.html</u>

In 2022 RSPT and the City of Duluth took a direct focus on the positive water quality impacts of Green Stormwater Infrastructure, running many targeted public service announcements with local television stations in an effort to educate the public. More information on these educational topics and videos can be found at. <u>https://www.poopfairy.university/</u>

#### 2. Public Participation/Involvement

The City of Duluth engages the community through events that help deliver a message about items that improve water quality. The City of Duluth is an organizing partner with Keep Duluth

Clean where the community comes together annually to pick up trash in Duluth and the Twin Ports area.

Information about the various Keep Duluth Clean (KDC) efforts can be found here - <u>https://www.keepduluthclean.org/</u>

In the fall of 2022 the City of Duluth also began participating in the Adopt-a-Drain Program which is currently active throughout much of Minnesota and the United States. The City of Duluth asks residents to adopt a local storm drain of their choosing and work to keep the surrounding drainage area free of litter and debris that would otherwise wash into the storm drain, impacting our local water resources. For more information, and to sign up, please follow this link - <a href="https://mn.adopt-a-drain.org/">https://mn.adopt-a-drain.org/</a>

The City of Duluth also welcomes comments or questions around the Stormwater Pollution Prevention Plan (SWPPP). To discuss or comment on the SWPPP please contact Ryan Granlund at <u>rgranlund@duluthmn.gov</u> or 218-730-4088.

### 3. Illicit Discharge Detection and Elimination (IDDE)

Illicit discharge is the discharge of a pollutants into the City's storm sewer system or a receiving water. The City of Duluth conducts regular inspections and maintenance of storm sewer infrastructure in an effort to detect and eliminate any signs or sources of pollution. The City responds to all concerns of illicit discharge and follows up with cleaning and enforcement where necessary. Things to watch for are water coming from out of a manhole lid, odd odors or discolored water/discharges, and blatant dumping of materials that could runoff into public water through the storm system or otherwise. Any concerns of illicit discharge in the City of Duluth should be promptly reported by calling 218-730-4130.

#### 4. Construction Site Stormwater Runoff Control

The City of Duluth requires an Erosion Control Permit for all construction activities that disturb more than 3,000 s.f. or is within a shoreland zone. The City conducts regular inspections of construction sites within its jurisdiction to ensure that measures are in place to minimize erosion and discharge of sediment and other pollutants in stormwater runoff during construction activity. Additionally, all proposed construction sites undergo a review process with City staff to ensure that there are erosion control measures designed for each site. All construction site stormwater concerns can be directed to City of Duluth Engineering at 218-730-5200.

#### 5. Post-Construction Stormwater Management

The City of Duluth's Unified Development Chapter contains stormwater management requirements for all new and redevelopment projects that impact 3,000 sq.ft. or more. These requirements are combined with the MPCA Construction Stormwater Activities Permit for development projects that exceed an acre of new impervious surface area. The City conducts plan reviews and approves the stormwater management plan for all projects prior to construction. The City of Duluth requires the installation of structural stormwater management practices that provide rate, volume, temperature and water quality controls for stormwater runoff from the proposed development.

The City is also actively partnered with the Duluth Urban Watershed Advisory Committee around a green infrastructure code audit with the goal of improving regulatory access to environmentally friendly infrastructure.

## 6. Pollution Prevention/Good Housekeeping

The City of Duluth practices pollution prevention through a variety of efforts in its typical municipal operations. The City owns and maintains over a hundred stormwater runoff Best Management Practices (BMPs) that manage runoff through a variety of means including improving water quality, reducing rate of runoff and capturing pollutants. Many of these BMP's are cleared of sediment, trash and debris annually in an effort to protect our public waters. The City also maintains a large network of storm sewer infrastructure in an effort to reduce the discharge of pollutants in stormwater. Additionally, the City's Street Maintenance Staff is focused and committed on reducing the use of chlorides during winter maintenance through staff training, and acquisition of equipment and technology that will aide in that venture. Stormwater management is a daily part of most of the City's Divisions. This includes everything from maintenance of City parks, facility maintenance and ensuring vehicles and equipment are maintained and not leaking.

In 2022, City of Duluth winter maintenance professionals became MPCA Smart Salting Certified, in a further effort to reduce chloride pollution. To learn more about the impacts of chloride on water resources visit - <u>https://www.pca.state.mn.us/pollutants-and-contaminants/chloride</u>

In 2022, the City of Duluth was also the recipient of a \$100k grant award from the Minnesota Pollution Control Agency to perform Stormwater Resilience Planning. The City is currently engaged in a project with Short-Elliot-Hendrickson Inc. around a watershed study of Duluth's 32<sup>nd</sup> Ave W Creek watershed and begin developing a city-wide Stormwater Management Plan. <u>https://www.pca.state.mn.us/news-and-stories/mpca-announces-130000-investment-with-cloquet-to-prepare-for-extreme-weather-and-climate-change</u>

The City also was a recent recipient of grant from the Great Lakes Commission – Great Lakes Sediment and Nutrient Reduction Program for \$121k to aide in funding a Green Stormwater Infrastructure Bio-Filtration Basin in Irving Park, Duluth to treat urban stormwater flows before discharge to Keene Creek Trout Stream, St. Louis River Estuary and Lake Superior. https://www.glc.org/news/glsnrp-100622

For more information on other practices of pollution prevention contact Ryan Granlund at <u>rgranlund@duluthmn.gov</u> or 218-730-4088.