

Table of Contents

	Page
1.1 Eligibility	2
11.1 Existing Permittee Applicants	3
12.1 Stormwater Pollution Prevention Program (SWPPP) Document.....	3
13.1 Stormwater Pollution Prevention Program (SWPPP)	4
14.1 Mapping	4
15.1 Minimum Control Measures (MCMs)	5
16.1 MCM 1: Public Education and Outreach	5
17.1 MCM 2: Public Participation/Involvement	9
18.1 MCM 3: Illicit Discharge Detection and Elimination	12
19.1 MCM 4: Construction Site Stormwater Runoff Control	19
20.1 MCM 5: Post-Construction Stormwater Management	26
21.1 MCM 6: Pollution Prevention/Good Housekeeping For Municipal Operations	33
22.1 Discharges to Impaired Waters with a USEPA-Approved TMDL that includes an Applicable WLA	41
23.1 Alum or Ferric Chloride Phosphorus Treatment Systems	44
24.1 Stormwater Pollution Prevention Program (SWPPP) Modification	45
25.1 Annual Assessment, Annual Reporting, and Recordkeeping	45
27.1 Definitions.....	47
Figure 1 Ramsey County MS4 Map.....	52
Figure 2 Ramsey County Illicit Discharge Map.....	53
Figure 3 Ramsey County Facilities Map.....	54
Appendix A Ramsey County Impaired Waters and TMDLs.....	55

Eligibility

Ramsey County is identified as a small Municipal Separate Storm Sewer System (MS4) and has developed a Stormwater Pollution Prevention Program (SWPPP) to manage its stormwater runoff. Although Ramsey County is geographically the smallest county in Minnesota, it is the most densely populated and has been almost fully developed. The county owns and operates over 300 miles of roadway with a stormwater conveyance system that includes curbs, gutters, ditches, and storm drains draining into the many water bodies. Ramsey County also owns other facilities that connect into the MS4 that are covered under this SWPPP including parks, golf courses, yard waste sites, household hazardous waste collection sites, libraries, and other county-owned buildings.

The EPA's Phase II Rule of the National Pollutant Discharge and Elimination System (NPDES) requires MS4s in urbanized areas to apply for an MS4 permit. The goal of the MS4 permit is to restore and maintain the chemical, physical, and biological integrity of Waters of the State through management and treatment of urban stormwater runoff. Each MS4 must develop and implement its own SWPPP, which must be designed to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP), protect water quality, and satisfy the applicable water quality requirements of the Clean Water Act. Best Management Practices (BMPs) must be developed by each MS4 to meet the MEP standards for each of the six Minimum Control Measures (MCM).

Stormwater runoff refers to water that runs off land surfaces after a rainfall or snowmelt event. Stormwater runoff is carried off the land and into the storm sewer systems and eventually into surface waters. The addition of streets, parking lots, driveways, and sidewalks decreases the amount of pervious area, areas where water soaks into the ground, and increases the amount of runoff. The runoff picks up pollutants including pesticides, fertilizers, oils, grease, metals, pathogens, salt, sediment, litter, and other debris as the water flows over the impervious surfaces. These pollutants are transported through the storm sewer system and enter water resources. This contributes to water quality degradation by changing natural hydrologic patterns, accelerating stream flows, destroying aquatic habitats, and elevating pollutant concentrations and loadings. Degradation in water quality can prevent recreational use of water bodies, contaminate drinking water supplies, and disturb aquatic wildlife habitat. This SWPPP was developed with the protection of these water bodies in mind and promotes the protection of these natural resources.

Any questions regarding this SWPPP may be directed to the Ramsey County Public Works Department-Environmental Services Division at 651-266-7160 or email to stormwater@co.ramsey.mn.us

11.1	<p>Existing Permittee Applicants. [Minn. R. 7090]</p>
11.2	<p><i>All existing permittees seeking to continue discharging stormwater associated with a small MS4 after the issuance date of the General Permit must submit Part 2 of the permit application: Due by 150 days after permit issuance. Existing permittees were required to submit Part 1 of the permit application prior to the expiration date (July 31, 2018) of the Agency's small MS4 general permit No. MNRO40000, effective August 1, 2013. [Minn. R. 7090]</i></p> <p>Ramsey County submitted the Part 2 application form for the 2020-2025 MS4 Permit to the MPCA on 4/12/2021. We are currently waiting for the agency to issue permit coverage following a public comment period.</p>
12.1	<p>Stormwater Pollution Prevention Program (SWPPP) Document. [Minn. R. 7090]</p>
12.2	<p><i>All applicants must submit a SWPPP Document (i.e., Part 2 of the permit application) when seeking coverage under the General Permit. The SWPPP Document will become an enforceable part of the General Permit upon approval by the Agency. Modifications to the SWPPP Document that are required or allowed by the General Permit (see Section 24) will also become enforceable provisions. The applicant must submit the SWPPP Document on a form provided by the Agency. The applicant's SWPPP Document must include items 12.3 through 12.11, as applicable. [Minn. R. 7090]</i></p> <p>Ramsey County has provided the MPCA with the SWPPP Document required for application for the General Permit. This document provides a more thorough description of our program and the data we use to track the success of our program.</p>
12.3	<p><i>The applicant must provide a description of partnerships with another regulated small MS4(s), into which the applicant has entered in order to satisfy one or more requirements of the General Permit. [Minn. R. 7090]</i></p> <p><u>Partnership:</u> Joint Powers Agreement with the City of Saint Paul (RC Board Resolution #93-643) <u>Description:</u> The City of Saint Paul performs the routine maintenance on several county roads within the city. <u>MCM Covered:</u> MCM 6</p> <p><u>Responsible Staff:</u> Deputy Director of Highway Maintenance General Maintenance Supervisor Highway Maintenance Supervisor</p>
12.8	<p><i>12.8 The applicant must submit a compliance schedule for each applicable Waste Load Allocation (WLA) not being met for oxygen demand, nitrate, total suspended solids (TSS), and total phosphorus (TP). The applicant may develop a compliance</i></p>
12.10	<p><i>schedule to include multiple WLAs. The applicant's compliance schedule must include the following information:</i></p> <p><i>a. proposed BMPs or progress toward implementation of BMPs to be achieved during the permit term; b. the year each BMP is expected to be implemented;</i></p> <p><i>c. a target year the applicable WLA(s) will be achieved; and</i></p> <p><i>d. if the applicant has an applicable WLA for TSS or TP, a cumulative estimate of TSS and TP load reductions (in pounds) to be achieved during the permit term and the Agency-approved method used to determine the estimate.</i></p> <p><i>Agency-approved methods include "Program for Predicting Polluting Particle Passage thru Pits, Puddles, and Ponds (P8) Urban Catchment Model", "Source Loading and Management Model for Windows (WinSLAMM)", "Minimal Impact Design Standards (MIDS) calculator", "Minnesota Pollution Control Agency (MPCA) simple estimator tool", or any other method that receives Agency-approval. [Minn. R. 7090]</i></p> <p><i>12.9 For each applicable WLA where a reduction in pollutant loading is required for bacteria, chloride, and temperature, the applicant must provide a description of any existing BMPs the applicant has developed and implemented to satisfy the requirements of items 22.3 through 22.7, including:</i></p>

	<p><i>a. the BMPs the applicant has implemented for each required component at the time of application; b. the status of each required component; and</i></p> <p><i>c. name(s) of individual(s) or position titles responsible for implementing and/or coordinating each required component.</i></p> <p><i>If the required components have not been developed at the time of application (e.g., new permittee applicants), or revised to meet new requirements of the General Permit (e.g., existing permittee applicants); the applicant must satisfy the permit requirements in accordance with the schedule in Appendix B, Table 2 (existing permittee applicants), or Table 3 (new permittee applicants). [Minn. R. 7090]</i></p> <p><i>12.10 If the applicant is claiming to meet an applicable WLA where a reduction in pollutant loading is required for oxygen demand, nitrate, TSS, or TP, the applicant must provide documentation to demonstrate the applicable WLA is being met. At a minimum, the applicant must provide the following information:</i></p> <p><i>a. a list of all structural stormwater BMPs implemented to achieve the applicable WLA, including the BMP type (e.g., constructed basin, infiltrator, filter, swale or strip, etc.), location in geographic coordinates, owner, and year implemented; and</i></p> <p><i>b. documentation using an Agency-approved method, which demonstrates the estimated reductions of oxygen demand (or its surrogate pollutants), nitrate, TSS, or TP from BMPs meet the MS4 WLA reductions included in the TMDL report, if that information is available (e.g., percent reduction or pounds reduced); or</i></p> <p><i>c. documentation using an Agency-approved method, which demonstrates the applicant's existing load meets the WLA. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <p>The approved TMDLs for impaired water bodies receiving drainage from Ramsey County’s MS4 are mostly coordinated by the watershed districts or water management organizations responsible for those lakes. The districts coordinate installation of BMPs to comply with the waste load allocations. Ramsey County provides additional services by performing sampling and analysis of lake water samples though out the county. We also submit TMDL compliance information as part of our annual MS4 Permit reporting which is submitted to the MPCA and posted on our stormwater website. More details are available in Section 22.</p> <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
13.1	Stormwater Pollution Prevention Program (SWPPP). [Minn. R. 7090]
13.2	<i>The permittee must develop, implement, and enforce a SWPPP designed to reduce the discharge of pollutants from the small MS4 to the Maximum Extent Practicable (MEP) and to protect water quality. Existing permittees regulated within the urbanized area as defined by the United States Census Bureau, the applicable urbanized area for which the permittee must develop, implement, and enforce a SWPPP can be based on the most recent decennial census of 2010 for the duration of the General Permit. [Minn. R. 7090]</i>
13.4	<i>Existing permittees must revise their SWPPP developed under the Agency's small MS4 general permit No. MNR040000 that was effective August 1, 2013, to meet the requirements of the General Permit in accordance with the schedule in Appendix B, Table 2. New permittees must develop, implement, and enforce their SWPPP in accordance with the schedule in Appendix B, Table 3. The permittee's SWPPP must consist of Sections 14 through 23, as applicable. [Minn. R. 7090]</i>
14.1	Mapping. [Minn. R. 7090]
14.2	<i>New permittees must develop, and existing permittees must update, as necessary, a storm sewer system map that depicts the following: a. the permittee's entire MS4 as a goal, but at a minimum, all pipes 12 inches or greater in diameter, including stormwater flow direction in those pipes; b. outfalls, including a unique identification (ID) number assigned by the permittee,</i>

	<p><i>and an associated geographic coordinates; c. structural stormwater BMPs that are part of the permittee's MS4; and d. all receiving waters. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u> Ramsey County maintains a GIS-based map of the storm sewer system, outfalls, receiving waters, and structural BMPs. It is updated to revise existing data. A copy of the map is included in Figure 1 of this document.</p> <p><u>Responsible Staff:</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
15.1	<p>Minimum Control Measures (MCMs). [Minn. R. 7090.1040]</p>
15.2	<p>Ramsey County must incorporate the following six MCMs into the SWPPP. [Minn. R. 7090.1040]</p>
16.1	<p>MCM 1: Public Education and Outreach. [Minn. R. 7090]</p>
16.2	<p><i>Ramsey County must revise our current program, as necessary, and continue to implement, a public education program to distribute educational materials or equivalent outreach that informs the public of the impact stormwater discharges have on waterbodies and that includes actions citizens, businesses, and other local organizations can take to reduce the discharge of pollutants to stormwater. The permittee may use existing materials if they are appropriate for the message the permittee chooses to deliver, or the permittee may develop its own educational materials. The permittee may partner with other MS4 permittees, community groups, watershed management organizations, or other groups to implement its education and outreach program. The permittee must incorporate Section 16 requirements into their program. [Minn. R. 7090]</i></p>
16.3	<p><i>During the permit term, the permittee must distribute educational materials or equivalent outreach focused on at least two (2) specifically selected stormwater-related issues of high priority to the permittee (e.g., specific TMDL reduction targets, changing local business practices, promoting adoption of residential BMPs, lake improvements through lake associations, household chemicals, yard waste, etc.). The topics must be different from those described in items 16.4 through 16.6. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u> Ramsey County has selected <u>household chemicals</u> and <u>yard waste</u> as two of our priority education topics. Our Public Health Department distributes information about our Household Hazardous Waste and Yard Waste collection sites through multiple communication channels including the county website, brochures, newsletters, posters, utility bill inserts, billboards, transit system advertisements, online banner and mobile ads, and social media.</p> <p><u>Performance Criteria:</u> Determine the population exposed to the issues based on:</p> <ul style="list-style-type: none"> • Total number of brochures, newsletters, and utility bill inserts distributed to the public • Number of impressions* through our advertising on various media types • Number of “hits” on county websites related to stormwater quality, illicit discharge, construction, and residential waste • Number of subscribers for updates on Ramsey County construction projects <p>*estimated number of instances where people see our ads.</p> <p><u>Responsible Staff:</u> Environmental Health Supervisor – Ramsey County Public Health Health Educator – Ramsey County Public Health Environmental Resource Specialist / MS4 Coordinator – Ramsey County Public Works</p>

<p>16.4</p>	<p><i>At least once each calendar year, the permittee must distribute educational materials or equivalent outreach focused on illicit discharge recognition and reporting illicit discharges to the permittee. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u> Communicate to residents the importance of identifying and reporting illicit discharges to Ramsey County. Information is provided to residents via the county illicit discharge website and through brochures distributed at the county libraries and at the annual public forum for our SWPPP.</p> <p><u>BMPs yet to be implemented (expected completion):</u></p> <ul style="list-style-type: none"> • Expand brochure distribution to public information locations at other county buildings, municipal buildings, and Saint Paul public libraries (January 2022) • Work with the Ramsey County Public Health Department’s Communications Division to include advertising via social media (January 2022) <p><u>Performance Criteria:</u></p> <ul style="list-style-type: none"> • Annual number of brochures distributed to the public • Annual number of web visits to the county illicit discharge web page • Annual number of public reported illicit discharges • Estimated social media “impression” (BMP not yet implemented) <p><u>Responsible Staff:</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Environmental Health Supervisor – Ramsey County Public Health Health Educator – Ramsey County Public Health</p>
<p>16.5</p>	<p><i>For cities and townships, at least once each calendar year, the permittee must distribute educational materials or equivalent outreach to residents, businesses, commercial facilities, and institutions, focused on the following:</i></p> <p><i>a. impacts of deicing salt use on receiving waters;</i> <i>b. methods to reduce deicing salt use; and</i> <i>c. proper storage of salt or other deicing materials. [Minn. R. 7090]</i></p> <p>This requirement is not applicable to Ramsey County</p>
<p>16.6</p>	<p><i>For cities and townships, at least once each calendar year, the permittee must distribute educational materials or equivalent outreach focused on pet waste. The educational materials or equivalent outreach must include information on the following:</i></p> <p><i>a. impacts of pet waste on receiving waters;</i> <i>b. proper management of pet waste; and</i> <i>c. any existing permittee regulatory mechanism(s) for pet waste. [Minn. R. 7090]</i></p> <p>This requirement is not applicable to Ramsey County</p>

16.7 *The permittee must develop and implement an education and outreach plan that consists of the following:*

- a. *target audience(s) (e.g., residents, businesses, commercial facilities, institutions, and local organizations; consideration should be given to low-income residents, people of color, and non-native English-speaking residents. A resource to help identify these areas is available on the Agency's environmental justice website);*
- b. *name or position title of responsible person(s) for overall plan implementation;*
- c. *specific activities and schedules to reach each target audience; and*
- d. *a description of any coordination with and/or use of stormwater education and outreach programs implemented by other entities, if applicable. [Minn. R. 7090]*

BMP Description:

- Ramsey County's Public Health Department is responsible for education and outreach promoting safe and responsible household and business waste disposal. Three areas of interest cover the bulk of the outreach efforts: Household Hazardous Waste (HHW), Yard Waste, and businesses generating hazardous waste (Very Small Quantity Generator / VSQG). Details are available in the [Ramsey County Solid Waste Master Plan](#) on Ramsey County's website and are summarized here:
 - Household Hazardous Waste Participation Goal
Ramsey County aims to increase participation at its household hazardous waste collection sites by 50-75% by 2030. This will be achieved by redesigning the program to be more accessible to residents and accepting more items like electronic waste.
The county will continue its ongoing and robust promotion of the collection sites through direct mail, online ads, billboards, website, social media posts and e-newsletters.
Ramsey County will also continue working with cultural consultants to increase participation by 10% at each targeted collection each year in the Hmong and Latinx community, both of which have been traditionally underserved. This will be achieved through targeted outreach efforts, using culturally appropriate messaging and strategies.
 - Yard Waste Participation Goal
Ramsey County aims to maintain current levels of participation at its yard waste collection sites. This will be achieved through on-going and robust promotion of the collection sites using direct mail, online ads, billboards, website, social media posts and e-newsletters.
Ramsey County also has a partnership with the University of Minnesota Extension to educate residents on lawn and garden care and backyard composting. Master Gardener Volunteers conduct their education through face-to-face outreach and a phone message line. Ramsey County will continue to partner with them.
 - VSQG Program
Ramsey County regulates business hazardous waste under our [Hazardous Waste Ordinance](#). The regulatory portion of this ordinance is further detailed under MCM 3. Our Public Health conducts several hazardous waste generator training sessions per year.
 - Public Health publishes a newsletter focusing on environmental issues called Green Ramsey.
 - Public Health operates a waste disposal and recycling hotline for the public to call with questions.
- The Soil and Water Conservation Division of Ramsey County Parks and Recreation Department provides services and programs related to preserving water quality including rain garden design and installation, shoreline improvement projects, erosion control, and conservation forums. The material is covered in person and on their [website](#).
- Ramsey County Parks and Recreation Department operates the Tamarack Nature Center. The nature center includes several water quality exhibits and brochures. The public can participate in water quality education and interpretive programs throughout the year.
- Ramsey County Public Works initiates efforts to educate the public and businesses about water quality issues.
 - The Right of Way Permits office hosts an annual utility meeting with contractors and municipal partners
 - Construction project meetings include time spent focusing on sediment and erosion control issues.

- The Public Works website includes webpages with a focus on [stormwater](#) and lake monitoring. There is also educational material on [illicit discharge](#) issues.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Environmental Health Supervisor – Ramsey County Public Health
 Health Educator – Ramsey County Public Health
 Outdoor Education Manager – Ramsey County Parks and Recreation
 Director of Operations – Soil and Water – Ramsey County Parks and Recreation

16.8 *The permittee must document the following information:*

- a. *a description of all specific stormwater-related issues identified by the permittee in item 16.3;*
- b. *all information required under the permittee's education and outreach plan in item 16.7;*
- c. *activities held, including dates, to reach each target audience;*
- d. *quantities and descriptions of educational materials distributed, including dates distributed; and*
- e. *estimated audience (e.g., number of participants, viewers, readers, listeners, etc.) for each completed education and outreach activity. [Minn. R. 7090]*

BMP Description:

Ramsey County collects data related to our education and outreach program throughout the year. Most events and outreach sessions have date and attendance data recorded. Some events are ongoing throughout the year and are tracked by volume and weight collected. Our waste collection serves an additional purpose of preventing illicit discharges covered under MCM 3. We intend to expand the data collection to incorporate as much of our program as possible. A summary of the data collected is listed below.

Performance Criteria

- Household Hazardous Waste Program
 - Total operating hours and household participation at Ramsey County's year-round and satellite collection sites
 - Total amount (lbs) of material collected at the collection events and at the county's 24-hr waste oil collection site.
 - Total amount (lbs) of pharmaceuticals collected at the Ramsey County Sheriff's Patrol Station
- Environmental justice / underserved community outreach
 - Participation at HHW collection events at sites located near Hmong and Latinx communities
- Yard Waste Site Program
 - Total volume of yard waste and brush collected at the county yard waste sites
 - Total volume of compost produced
 - Total number of visitors participating in the source separated organics program
 - Total weight of source separated organics collected
 - Total number of Master Gardener interactions with the public at county yard waste sites
- VSQG Program
 - Total number of hazardous waste generator training sessions and attendance
- Ramsey County waste and recycling hotline
 - Total volume of calls organized by topic
- Soil and Water Conservation Division
 - Conservation forums held (date, topic, and attendance)
 - Rain garden and shoreline projects consulted and installed

	<ul style="list-style-type: none"> • Tamarack Nature Center <ul style="list-style-type: none"> ○ Annual visitors ○ Water quality education and interpretive programs participants • Public Works Department <ul style="list-style-type: none"> ○ Date and participation in the ROW Permits office annual utility meeting ○ Date and attendance at pre-construction and weekly construction meetings <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Environmental Health Supervisor – Ramsey County Public Health</p>
16.9	<p><i>The permittee must conduct an annual assessment of the public education program to evaluate program compliance, the status of achieving the measurable requirements in Section 16, and determine how the program might be improved. Measurable requirements are activities that must be documented or tracked as applicable to the MCM (e.g., education and outreach efforts, implementation of written plans, etc.). The permittee must perform the annual assessment prior to completion of each annual report and document any modifications made to the program as a result of the annual assessment. [Minn. R. 7090]</i></p> <p>Ramsey County collects SWPPP program data and submits an annual MS4 report to the MPCA covering a limited range of material related to our SWPPP program. We compile a much more detailed SWPPP Annual Report to evaluate the success of our program. Both reports are completed and posted on our stormwater management website prior to our public SWPPP forum.</p> <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
17.1	<p>MCM 2: Public Participation/Involvement. [Minn. R. 7090]</p>
17.2	<p><i>New permittees must develop and implement, and existing permittees must revise their current program, as necessary, and continue to implement, a Public Participation/Involvement program to solicit public input on the SWPPP and involve the public in activities that improve or protect water quality. The permittee must incorporate Section 17 requirements into their program. [Minn. R. 7090]</i></p>
17.3	<p><i>Each calendar year, the permittee must provide a minimum of one (1) opportunity for the public to provide input on the adequacy of the SWPPP. The permittee may conduct a public meeting(s) to satisfy this requirement, provided appropriate local public notice requirements are followed and the public is given the opportunity to review and comment on the SWPPP. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u></p> <ul style="list-style-type: none"> • Annual public forum typically held at the Phalen WaterFest hosted by Ramsey-Washington Metro Watershed District • Provide a review and comment period on Ramsey County’s stormwater management website. An email link is available for the public to submit SWPPP and other stormwater-related comments <p><u>Performance Criteria:</u></p> <ul style="list-style-type: none"> • Number of visits and comments at the Ramsey County MS4 booth at Phalen WaterFest • Number of comments provided via the Ramsey County stormwater email account • Dates of public notices via newspaper, the county website, and the county social media accounts

<p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>17.4 <i>The permittee must provide access to the SWPPP Document, annual reports, and other documentation that supports or describes the SWPPP (e.g., regulatory mechanism(s), etc.) for public review, upon request. All public data requests are subject to the Minnesota Government Data Practices Act, Minn. Stat. 13. [Minn. Stat. 13]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County posts the SWPPP document, annual reports and ordinances on our county website • The SWPPP document and annual MS4 and SWPPP reports are available at the Public Works Department main desk (1425 Paul Kirkwood Drive, Arden Hills, MN 55112) when conditions allow • Physical copies of our ordinances may be obtained by contacting the department responsible for regulating the ordinance • Ramsey County Stormwater Website: https://www.ramseycounty.us/residents/environment/stormwater-management • Illicit Discharge web page and ordinance: https://www.ramseycounty.us/residents/environment/stormwater-management/illicit-discharge • Right of Way permit program and ordinance: https://www.ramseycounty.us/business/licenses-permits-inspections/permits • Hazardous waste program: https://www.ramseycounty.us/business/recycling-waste/hazardous-waste <p><u>Performance Criteria</u></p> <ul style="list-style-type: none"> • Records the dates of document posting on the county stormwater website for public review and comment <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Utility and Right of Way Coordinator – Ramsey County Public Works Environmental Health Supervisor – Ramsey County Public Health</p>
<p>17.5 <i>The permittee must consider oral and written input regarding the SWPPP submitted by the public to the permittee. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County holds our annual public forum and provides a form to collect written comments by the public. Verbal comments are also collected • Ramsey County’s stormwater management website includes an email link for the public to submit comments and questions related to our MS4 program <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>17.6 <i>Each calendar year, Ramsey County must provide a minimum of one (1) public involvement activity that includes a pollution prevention or water quality theme (e.g., rain barrel distribution event, rain garden workshop, cleanup event, storm drain stenciling, volunteer water quality monitoring, adopt a storm drain program, household hazardous waste collection day, etc.). [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County holds our annual forum at Phalen WaterFest. We have also sponsored and promoted the event for its water quality education purposes

	<ul style="list-style-type: none"> Ramsey County hosts several Household Hazardous Waste collection events/weekends throughout the year at satellite locations <p><u>Performance Criteria</u></p> <ul style="list-style-type: none"> The number of visits/interactions at our public forum booth are reported in item 17.3 Household Hazardous Waste program participation is reported in item 16.8 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Environmental Health Supervisor – Ramsey County Public Health</p>
17.7	<p><i>The permittee must document the following information: a. all relevant written input submitted by persons regarding the SWPPP; b. all responses from the permittee to written input received regarding the SWPPP, including any modifications made to the SWPPP as a result of the written input received; c. date(s), location(s), and estimated number of participants at events held for purposes of compliance with item 17.3; d. notices provided to the public of any events scheduled to meet item 17.3, including any electronic correspondence (e.g., website, e-mail distribution lists, notices, etc.); and e. date(s), location(s), description of activities, and estimated number of participants at events held for the purpose of compliance with item 17.6. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ol style="list-style-type: none"> Ramsey County will record any comments submitted via our public forum and stormwater management website. Ramsey County will keep a record of any responses provided to relevant questions and comments on our MS4 program All event data will be recorded for our public forum Public notices and web postings will be collected for our public forum announcement Ramsey County will collect relevant data for our HHW collection events <p><u>Performance Criteria</u></p> <ol style="list-style-type: none"> Report the number and type of comments submitted via both available options Include relevant comments/questions and answers in the SWPPP annual report Event data is reported in item 17.3 Public notice data is reported in item 17.3 Household Hazardous waste program participation is reported in item 16.8 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
17.8	<p><i>The permittee must conduct an annual assessment of the Public Participation/Involvement program to evaluate program compliance, the status of achieving the measurable requirements in Section 17, and determine how the program might be improved. Measurable requirements are activities that must be documented or tracked as applicable to the MCM (e.g., public input and involvement opportunities, etc.). The permittee must perform the annual assessment prior to completion of each annual report and document any modifications made to the program as a result of the annual assessment. [Minn. R. 7090]</i></p> <p><u>BMP Description</u> The annual assessment of the MCM 2 program is conducted during the process of preparing Ramsey County’s MS4 SWPPP Annual report. Our goal is to maintain consistent public participation numbers. Our Public Health Department is responsible for evaluating the HHW participation with a stated goal of increasing participation by 50-75% by 2030. Any changes to both will be documented under this item.</p>

	<p><u>Performance Criteria</u></p> <ul style="list-style-type: none"> • Compare yearly public forum contacts/comments. This will be reported under item 17.3 • Compare yearly HHW collection event participation. This will be reported under item 16.8 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Environmental Health Supervisor – Ramsey County Public Health</p>
18.1	<p>MCM 3: Illicit Discharge Detection and Elimination (IDDE). [Minn. R. 7090]</p>
18.2	<p><i>New permittees must develop, implement, and enforce, and existing permittees must revise their current program as necessary, and continue to implement and enforce, a program to detect and eliminate illicit discharges into the MS4. The permittee must incorporate Section 18 requirements into their program. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u> Ramsey County has had an Illicit Discharge Detection and Elimination program in place for several years. The program includes outfall inspections, hazardous waste generator permitting, illicit discharge education, public reporting options, and employee training.</p> <p><u>Performance Criteria:</u> The program is evaluated based on the data addressed later in this MCM.</p> <p><u>Responsible Staff:</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
18.3	<p><i>The permittee must maintain a map of the permittee's MS4, as required in Section 14. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u> Ramsey County maintains a map of the MS4 as required in Section 14. We also maintain a map of reported illicit discharges to use as data in item 18.10. A map of historical illicit discharge events is in Figure 2.</p> <p><u>Responsible Staff:</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
18.4	<p><i>To the extent allowable under state or local law, the permittee must develop, implement, and enforce a regulatory mechanism(s) that prohibits non-stormwater discharges into the permittee's MS4, except those non-stormwater discharges authorized in item 3.2. A regulatory mechanism(s) for the purposes of the General Permit may consist of contract language, an ordinance, permits, standards, written policies, operational plans, legal agreements, or any other mechanism, that will be enforced by the permittee. The regulatory mechanism(s) must also include items 18.5 and 18.6, as applicable. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u> On March 13, 2012, the Ramsey County Board of Commissioners approved Ordinance #2012-078 regulating illicit discharges and connections to the county storm sewer system. The stated objectives of the ordinance include:</p> <ul style="list-style-type: none"> • To regulate the contribution of pollutants to the MS4 by stormwater discharges by any user. • To prohibit illicit connections and discharges to the MS4. • To establish legal authority to carry out all inspection, surveillance, monitoring, and enforcement procedures necessary to ensure compliance with this ordinance.

	<p>Failure to comply with the county’s requirements following discovery of an illicit discharge or connection may be punishable by restriction of access to the county MS4 and a misdemeanor fine. A copy of the ordinance may be found on the RCPW Illicit Discharge Web page: www.co.ramsey.mn.us/pw/IllicitDischarge.htm</p> <p><u>Responsible Staff:</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>18.5</p>	<p><i>For cities, townships, and counties, the permittee's regulatory mechanism(s) must require owners or custodians of pets to remove and properly dispose of feces on permittee owned land areas. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • The land in the Ramsey County Parks system represents the bulk of pet owner usage on county-owned property • The Ramsey County Park Ordinance (Approved 2/11/1992 and amended 4/24/2007) in Chapter 3. Section T. – Pets in Parks includes the following language: “It shall be unlawful for any person to: ...6. Have custody or control of any pet in a park without possessing and using an appropriate device for cleaning up pet feces and disposing of the feces in a sanitary manner...”. <p><u>Responsible Staff</u> Director of Park Operations – Ramsey County Parks</p>
<p>18.6</p>	<p><i>For cities and townships, the permittee's regulatory mechanism(s) must require proper salt storage at commercial, institutional, and non-NPDES permitted industrial facilities. At a minimum, the regulatory mechanism(s) must require the following: a. designated salt storage areas must be covered or indoors; b. designated salt storage areas must be located on an impervious surface; and c. implementation of practices to reduce exposure when transferring material in designated salt storage areas (e.g., sweeping, diversions, and/or containment). [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County is exempt from this permit provision.
<p>18.7</p>	<p><i>The permittee must incorporate illicit discharge detection into all inspection and maintenance activities conducted in items 21.9, 21.10, and 21.11. Where feasible, the permittee must conduct illicit discharge inspections during dry-weather conditions (e.g., periods of 72 or more hours of no precipitation). [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • The Ramsey County personnel responsible for conducting inspections the items listed in 21.9, 21.10, and 21.10 are trained in Illicit Discharge Detection and Elimination • Illicit discharges are addressed in both our basin/pond inspection protocol and our outfall inspection protocol • All asset inspections through ArcGIS Collector currently include a category for presence of illicit discharges. <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> • Ramsey County will add an illicit discharge category to our basin/pond inspection forms. • Implementation timeline – Before 2022 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Environmental Resource Specialist – Ramsey County Parks and Recreation</p>

18.8 *At least once each calendar year, the permittee must train all field staff in illicit discharge recognition (including conditions which could cause illicit discharges), and reporting illicit discharges for further investigation. Field staff includes, but is not limited to, police, fire department, public works, and parks staff. Training for this specific requirement may include, but is not limited to, videos, in-person presentations, webinars, training documents, and/or emails. [Minn. R. 7090]*

BMP Description

- New field personnel in Ramsey County’s Public Works and Parks and Recreation Departments are trained in IDDE during their orientation

BMPs to be Implemented

- Illicit discharge training will expand to include other appropriate field personnel including Sheriff’s Department deputies and Public Health Department field staff
- The county’s illicit discharge field staff training is planned to transition to a training module hosted by Ramsey County’s internal Learning and Development Center. This will automate the initial and renewal training and provide reliable training data for our SWPPP reporting. Some staff with limited internet access on the job will need to continue in-person training.
 - Move the IDDE training to Ramsey County’s internal learning and development center providing an automated system for assigning new and refresher training.
 - Implementation timeline – During 2022 / within one year of MS4 Permit coverage approval

Responsible Staff

Safety Coordinator – Ramsey County Public Works
 Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Environmental Health Supervisor – Ramsey County Public Health
 Training Sergeant – Ramsey County Sheriff

18.9 *The permittee must ensure that individuals receive training commensurate with their responsibilities as they relate to the permittee’s IDDE program. Individuals includes, but is not limited to, individuals responsible for investigating, locating, eliminating illicit discharges, and/or enforcement. The permittee must ensure that previously trained individuals attend a refresher-training every three (3) calendar years following the initial training. [Minn. R. 7090]*

BMP Description

- Ramsey County Public Works Environmental Services Division is primarily responsible for investigating and enforcing violations of our Illicit Discharge ordinance. New staff are required to review material in our Illicit Discharge and Outfall Inspection Policies as part of their orientation.
- Environmental Services Division personnel are also encouraged to seek out and attend related training such as MS1108 – Illicit Discharge Management through the University of Minnesota’s Erosion and Stormwater Management Certification Program.

BMPs to be Implemented

- We will adjust our program to ensure that Environmental Services Division staff attend one illicit discharge related refresher training every three years if available.
- Implementation timeline – During 2022 to be fully implemented within one year of MS4 coverage approval

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works

18.10 *The permittee must maintain a written or mapped inventory of priority areas the permittee identifies as having a higher likelihood for illicit discharges. At a minimum, the permittee must evaluate the following for potential inclusion in the inventory: a. land uses associated with business/industrial activities; b. areas where illicit discharges have been identified in the past; and c. areas with storage of significant materials that could result in an illicit discharge. [Minn. R. 7090]*

BMP Description

- Ramsey County currently maintains an inventory of the locations with reported illicit discharges and businesses with industrial stormwater (MN ISW) permits for the purpose of identifying priority areas for inspection under our illicit discharge ordinance

BMP's to be Implemented

- Ramsey County will add hazardous waste generators regulated by our Public Health Department under our hazardous waste ordinance to our illicit discharge inventory
 - Implementation timeline – by the end of 2021
- We will work to identify any properties with stockpiles or other materials at risk for illicit discharges that discharge directly into our MS4 and are not covered by the ISW permit or by our Hazardous Waste Management (HWM) ordinance.
 - Implementation timeline – Ongoing

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Environmental Health Supervisor – Ramsey County Public Health

18.11 *To the extent allowable under state or local law, the permittee must conduct additional illicit discharge inspections in areas identified in item 18.10. [Minn. R. 7090]*

BMP Description

- Our Public Health Department inspects businesses regulated under our Hazardous Waste Management Ordinance. Permittees determined to be high risk are inspected 1 time per year. Other permittees are inspected on a longer cycle depending on their risk level.

BMPs to be Implemented

- Locations identified with repeated illicit discharge reports within a 5-year cycle will be inspected annually until they avoid a reported discharge for a full cycle
 - Implementation timeline – By the end of 2021
- Locations with an ISW Permit not covered under Ramsey County’s HSW Ordinance will be mapped and inspected once initially at their discharge point to Ramsey County’s MS4.
 - Implementation timeline – Within 1 year of permit coverage

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Environmental Health Supervisor – Ramsey County Public Health
 Environmental Health Inspector - Ramsey County Public Health

<p>18.12</p>	<p><i>The permittee must implement written procedures for investigating, locating, and eliminating the source of illicit discharges. At a minimum, the written procedures must include: a. a timeframe in which the permittee will investigate a reported illicit discharge; b. use of visual inspections to detect and track the source of an illicit discharge; c. tools available to the permittee to investigate and locate an illicit discharge (e.g., mobile cameras, collecting and analyzing water samples, smoke testing, dye testing, etc.); d. cleanup methods available to the permittee to remove an illicit discharge or spill; and e. name or position title of responsible person(s) for investigating, locating, and eliminating an illicit discharge. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County has drafted an Illicit Discharge Detection and Elimination Policy that is currently used as a guide for illicit discharge investigations <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> Update our IDDE Policy to conform with the new MS4 permit requirements and formalize it with approval by all responsible Ramsey County Departments <ul style="list-style-type: none"> Implementation timeline – By the end of 2021 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>18.13</p>	<p><i>The permittee must implement written procedures for responding to spills, including emergency response procedures to prevent spills from entering the MS4. The written procedures must also include the immediate notification of the Minnesota Department of Public Safety Duty Officer at 1-800-422-0798 (toll free) or 651-649-5451 (Metro area), if the source of the illicit discharge is a spill or leak as defined in Minn. Stat. 115.061. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County Public Works has an existing spill response procedure <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> Review current Public Works spill response procedure for compliance with the new permit rules Expand the adoption of a standard spill response and emergency response procedure to other relevant county departments Implementation timeline – Summer 2022 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>18.14</p>	<p><i>The permittee must maintain written enforcement response procedures (ERPs) to compel compliance with the permittee's regulatory mechanism(s) in Section 18. At a minimum, the written ERPs must include: a. a description of enforcement tools available to the permittee and guidelines for the use of each tool; b. timeframes to complete corrective actions; and c. name or position title of responsible person(s) for conducting enforcement. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County's IDDE Ordinance includes Enforcement Response Procedures that fulfill this requirement <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>

<p>18.15</p>	<p><i>The permittee must document the following information: a. date(s) and location(s) of IDDE inspections conducted in accordance with items 18.7 and 18.11; b. reports of alleged illicit discharges received, including date(s) of the report(s), and any follow-up action(s) taken by the permittee; c. date(s) of discovery of all illicit discharges; d. identification of outfalls, or other areas, where illicit discharges have been discovered; e. sources (including a description and the responsible party) of illicit discharges (if known); and f. action(s) taken by the permittee, including date(s), to address discovered illicit discharges. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County Public Works Environmental Services Division maintains records of all reported illicit discharges under the IDDE Program that includes the data required in this permit item <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> Collect any data related to illicit discharges reported by inspections conducted under our HWG permit program <ul style="list-style-type: none"> Implementation timeline – Summer 2022 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Environmental Health Supervisor – Ramsey County Public Health Environmental Health Inspector - Ramsey County Public Health</p>
<p>18.16</p>	<p><i>For each training in item 18.8 and 18.9, the permittee must document:</i></p> <ul style="list-style-type: none"> <i>general subject matter covered; b. names and departments of individuals in attendance; and c. date of each event. [Minn. R. 7090]</i> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County collects this data related to new hires of the Public Works and Parks Departments and for attendees at the Public Works annual staff meeting. <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> Once the updates to our training program described in Items 18.8 & 18.9 have been implemented, the collection will be automated by our training system <ul style="list-style-type: none"> Implementation timeline – During 2022 to be fully implemented within one year of MS4 coverage approval <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>18.17</p>	<p><i>The permittee must document any enforcement conducted pursuant to the ERPs in item 18.14, including verbal warnings. At a minimum, the permittee must document the following: a. name of the person responsible for violating the terms and conditions of the permittee's regulatory mechanism(s); b. date(s) and location(s) of the observed violation(s); c. description of the violation(s); d. corrective action(s) (including completion schedule) issued by the permittee; e. referrals to other regulatory organizations (if any); and f. date(s) violation(s) resolved. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County Public Works Environmental Services Division collects the data related to this item as a part of our IDDE Program. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works</p>

	Environmental Resource Specialist– Ramsey County Public Works
18.18	<p><i>The permittee must conduct an annual assessment of the IDDE program to evaluate program compliance, the status of achieving the measurable requirements in Section 18, and determine how the program might be improved. Measurable requirements are activities that must be documented or tracked as applicable to the MCM (e.g., trainings, inventory, inspections, enforcement, etc.). The permittee must perform the annual assessment prior to completion of each annual report and document any modifications made to the program as a result of the annual assessment. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County collects the data required by this item and reports the results in our MS4 SWPPP Annual Report on our storm water web page: https://www.ramseycounty.us/residents/environment/stormwater-management <p><u>Performance Criteria</u></p> <ul style="list-style-type: none"> • 18.10 - Illicit Discharge Priority Areas <ul style="list-style-type: none"> ○ # of priority areas identified by our IDDE Program ○ # of newly added priority areas ○ # of new HWG permittees • 18.11 – Illicit Discharge Inspections <ul style="list-style-type: none"> ○ # of outfall inspections performed ○ # of HWG permittees inspected ○ # of other high priority areas inspected • 18.13 – Spill Response <ul style="list-style-type: none"> ○ # of reported spills impacting the Ramsey County MS4 • 18.15 – Reported Illicit Discharges <ul style="list-style-type: none"> ○ # of reported illicit discharge categorized by reporter type <ul style="list-style-type: none"> ▪ Ramsey County inspectors ▪ Ramsey County staff ▪ Other partner agencies / municipalities ▪ Public via in person, phone, email, and web reporting portal • 18.16 – Staff IDDE training by department <ul style="list-style-type: none"> ○ # of new staff trained ○ # of staff receiving renewal training • 18.17 – Enforcement Actions <ul style="list-style-type: none"> ○ # of enforcement actions w/ resolutions (if known) <ul style="list-style-type: none"> ▪ Verbal warning ▪ Notice of violation and other escalated response under ERP ▪ Referral to other agencies / municipalities <p><u>Responsible Staff</u></p> <p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>

19.1	MCM 4: Construction Site Stormwater Runoff Control. [Minn. R. 7090]
19.2	<p><i>New permittees must develop, implement, and enforce, and existing permittees must revise their current program, as necessary, and continue to implement and enforce, a Construction Site Stormwater Runoff Control program. The program must address construction activity with a land disturbance of greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, within the permittee's jurisdiction and that discharge to the permittee's MS4. The permittee must incorporate Section 19 requirements into their program. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County does not have the regulatory authority to implement a Construction Site Stormwater Runoff Control Program to the extent required by the permit. We do believe in the purpose of this requirement and have drafted a Construction Stormwater Policy that we use to implement it in the following ways: <ul style="list-style-type: none"> ○ Construction projects in excess of 1 acre are covered under NPDES Phase II permit which is enforced by the MPCA. ○ Additional regulatory coverage is provided by city and watershed level local government units (LGUs). ○ Ramsey County's Soil and Water Conservation Division conducts erosion control inspections under contract with some municipalities to enforce their CSW permits. ○ All Ramsey County projects are conducted in compliance with NPDES stormwater regulations to the best extent possible. ○ Ramsey County has drafted a Construction Site Runoff Control Policy that will be used as guidance for complying with NPDES CSW standards on county projects. ○ Ramsey County adopted an amended Right of Way (ROW) ordinance on January 19, 2010 which includes specific provisions requiring permittees to follow erosion and sediment control standards comparable to those required under the NPDES Construction Stormwater Permit. The ROW permit enforces these standards on all projects in county ROW regardless of the disturbance size. A copy of the ROW Ordinance may be obtained at the RCPW Permits office (1425 Paul Kirkwold Dr, Arden Hills) or at: http://www.co.ramsey.mn.us/NR/ronlyres/F840563B-4B9E-4A20-82F0-CB4C29E3D9A8/33556/RightofWayOrdinancerevised2010.pdf <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Utility and Right of Way Coordinator– Ramsey County Public Works Utility and Right of Way Inspector– Ramsey County Public Works Construction Engineer – Ramsey County Public Works Construction Technician – Ramsey County Public Works Environmental Resource Specialist – Ramsey County Parks and Recreation</p>
19.3	<p><i>To the extent allowable under state or local law, the permittee must develop, implement, and enforce a regulatory mechanism(s) that establishes requirements for erosion, sediment, and waste controls that is at least as stringent as the Agency's most current Construction Stormwater General Permit (MNR100001), herein referred to as the CSW Permit. A regulatory mechanism(s) for the purposes of the General Permit may consist of contract language, an ordinance, permits, standards, written policies, operational plans, legal agreements, or any other mechanism, that will be enforced by the permittee. [Minn. R. 7090]</i></p> <p><u>BMP Description:</u></p> <ul style="list-style-type: none"> • Ramsey County construction projects in excess of 1 acre are covered under NPDES Phase II permit which is enforced by the MPCA. • Additional regulatory coverage is provided by city and watershed level local government units (LGU's).

- All Ramsey County projects are conducted in compliance with NPDES stormwater regulations pertaining to erosion, sediment, and waste controls
- Ramsey County’s Right of Way (ROW) ordinance includes specific provisions requiring permittees to follow erosion and sediment control standards comparable to those required under the NPDES Construction Stormwater Permit. The ROW permit imposes these standards on all projects in county ROW regardless of the disturbance size.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works
 Utility and Right of Way Inspector– Ramsey County Public Works
 Construction Engineer – Ramsey County Public Works
 Construction Technician – Ramsey County Public Works
 Environmental Resource Specialist – Ramsey County Parks and Recreation

19.4 *When the CSW Permit is reissued, the permittee must revise their regulatory mechanism(s), if necessary, within 12 months of the issuance date of that permit, to be at least as stringent as the requirements for erosion, sediment, and waste controls described in the CSW Permit. [Minn. R. 7090]*

BMP Description

- A new Minnesota CSW Permit is expected to be reissued in 2023. Ramsey County will review the permit for new erosion, sediment, and pollution control requirements and update our Right-of-Way Permit accordingly.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works

19.5 *The permittee’s regulatory mechanism(s) must require that owners and operators of construction activity develop site plans that must be submitted to the permittee for review and confirmation that regulatory mechanism(s) requirements have been met, prior to the start of construction activity. The regulatory mechanism(s) must require the owners and operators of construction activity to keep site plans up to date with regard to stormwater runoff controls. The regulatory mechanism(s) must require that site plans incorporate the following erosion, sediment, and waste controls that are at least as stringent as described in the CSW Permit: a. erosion prevention practices; b. sediment control practices; c. dewatering and basin draining; d. inspection and maintenance; e. pollution prevention management measures; f. temporary sediment basins; and g. termination conditions. [Minn. R. 7090]*

BMP Description:

- Ramsey County’s ROW Permit includes the requirement that the applicant submit one set of engineer grade construction plans.
- The permit includes requirements for erosion, sediment, and waste control.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works

19.6 *The permittee must implement written procedures for site plan reviews conducted by the permittee prior to the start of all construction activity, to ensure compliance with requirements of the regulatory mechanism(s). At a minimum, the procedures must include: a. written notification to owners and operators proposing construction activity, including projects less than one acre that are part of a larger common plan of development or sale, of the need to apply for and obtain coverage under the CSW Permit; and b. use of a written checklist, consistent with the requirements of the regulatory mechanism(s), to document the adequacy of each site plan required in item 19.5. [Minn. R. 7090]*

BMP Description

- Ramsey County has a Site Plan Review Checklist for ROW Permit applications that includes verifying if an applicant project is required to have a NPDES CSW Permit and a place to record the permit number
- Ramsey County uses a separate SWPPP review checklist when reviewing internal construction plans for completeness

BMPs to be Implemented

- Ramsey County has drafted a Site Plan Review SOP. It will include guidance on ROW Permit applications on whether a full site plan review is needed. For example, many ROW Permit applications do not include excavations or ground disturbance and would not be subject to a full review.
 - Implementation timeline - 2022
- Ramsey County is in the process of converting our ROW Permitting process to a fully automated electronic system. It is anticipated that the application form will include space to report the size of the project and a directive to apply for a CSW Permit if the project is eligible for coverage
 - Implementation timeline – By the end of 2021

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works
 Utility and Right of Way Inspector– Ramsey County Public Works
 Construction Engineer – Ramsey County Public Works
 Construction Technician – Ramsey County Public Works
 Environmental Resource Specialist – Ramsey County Parks and Recreation

19.7 *The permittee must implement an inspection program that includes written procedures for conducting site inspections, to determine compliance with the permittee's regulatory mechanism(s). The inspection program must also meet the requirements in items 19.8 and 19.9. [Minn. R. 7090]*

BMP Description

- Ramsey County’s Construction Site Runoff Control Policy includes a Construction Site Inspection Standard Operating Procedure (SOP)
- The Construction Site Inspection SOP includes guidance on completing inspections on both county construction and maintenance projects and on county ROW permittees.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works
 Utility and Right of Way Inspector– Ramsey County Public Works
 Construction Engineer – Ramsey County Public Works
 Construction Technician – Ramsey County Public Works
 Environmental Resource Specialist – Ramsey County Parks and Recreation

19.8 *The permittee must maintain written procedures for identifying high-priority and low-priority sites for inspection. At a minimum, the written procedures must include: a. a detailed explanation describing how sites will be categorized as either high-priority or low-priority; b. a frequency at which the permittee will conduct inspections for high-priority sites; c. a frequency at which the permittee will conduct inspections for low-priority sites; and d. the name(s) of individual(s) or position title(s) responsible for conducting site inspections. [Minn. R. 7090]*

BMP Description

- Ramsey County construction projects
 - Construction site inspections are performed by the contractor’s Erosion Control Supervisor on the schedule required by the NPDES CSW Permit
 - Oversight of the contractor’s compliance with the CSW Permit is conducted by county staff or a consulting company inspector hired under contract
 - Our Construction Site Inspection SOP includes criteria for increasing county oversight over our construction contractors
- Ramsey County ROW permitted projects
 - Most projects under our ROW Permit are very short term lasting only one or two days
 - Our Construction Site Inspection SOP includes the following ROW permit inspection goals:
 - Inspection of all permitted projects at least once.
 - Larger projects to be inspected weekly.
 - Follow-up inspections of every project to evaluate stabilization/vegetation success.

BMPs to be Implemented

- Expand the county’s Construction Site Inspection SOP guidance for identifying high priority sites under our ROW Permit
 - Implementation timeline – early 2022

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works
 Utility and Right of Way Inspector– Ramsey County Public Works

19.9 The permittee must implement a written checklist to document each site inspection when determining compliance with the permittee's regulatory mechanism(s). At a minimum, the checklist must include the permittee's inspection findings on the following areas, as applicable to each site: a. stabilization of exposed soils (including stockpiles); b. stabilization of ditch and swale bottoms; c. sediment control BMPs on all downgradient perimeters of the project and upgradient of buffer zones; d. storm drain inlet protection; e. energy dissipation at pipe outlets; f. vehicle tracking BMPs; g. preservation of a 50 foot natural buffer or redundant sediment controls where stormwater flows to a surface water within 50 feet of disturbed soils; h. owner/operator of construction activity self-inspection records; i. containment for all liquid and solid wastes generated by washout operations (e.g., concrete, stucco, paint, form release oils, curing compounds, and other construction materials); and j. BMPs maintained and functional. [Minn. R. 7090]

BMP Description

- Ramsey County’s Construction Site Inspection SOP includes an inspection form with a checklist that is used to audit our contractor’s compliance with CSW Permit regulations. This form may be used by both Ramsey County personnel and consultants working under an inspection contract.

BMPs to be Implemented

- Review Ramsey County’s inspection form checklist for compliance with current MS4 and CSW Permit requirements
 - Implementation timeline – By the end of 2021

- Use of an inspection checklist will be expanded to include projects contracted under other county departments.
 - Implementation timeline - 2022
- Ramsey County’s ROW Permit program is transitioning to a fully electronic system with automated inspection forms. We will review the proposed forms to include the required items listed above.
 - Implementation timeline – By the end of 2021

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works
 Utility and Right of Way Inspector– Ramsey County Public Works

19.10 *The permittee must implement written procedures for receipt and consideration of reports of noncompliance or other stormwater related information on construction activity submitted by the public to the permittee. [Minn. R. 7090]*

BMP Description

- Ramsey County provides many different methods for the public to report problems and receive information related to our construction projects and ROW Permittees
 - The public may contact our Public Works department via our general phone number (651-266-7100) and via three email addresses:
 - askpw@co.ramsey.mn.us
 - Stormwater@co.ramsey.mn.us
 - pothole@co.ramsey.mn.us
 - The Ramsey County Website includes reporting forms that direct the messages to the email addresses.
 - Ramsey County’s construction projects have their own pages accessed via our website that include project the contact information for our project managers
 - Ramsey County Parks and Recreation Department’s website includes a web portal directing the public comments to an email address: parks@co.ramsey.mn.us

BMPs to be Implemented

- Update our Construction Site Runoff Control Policy to include guidance on receiving complaints on county projects and ROW Permittees
 - Implementation timeline – 2022
- Ramsey County is currently converting to a web-based asset management program. The system will include the ability to open tickets and track the response time and methods. This data will be used to assess compliance with this item.
 - Implementation timeline – 2022

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works
 Highway Maintenance Supervisor– Ramsey County Public Works
 Highway Maintenance General Supervisor – Ramsey County Public Works
 Construction Engineer – Ramsey County Public Works
 Construction Technician – Ramsey County Public Works
 Environmental Resource Specialist – Ramsey County Parks and Recreation

19.11 *The permittee must ensure that individuals receive training commensurate with their responsibilities as they relate to the permittee's Construction Site Stormwater Runoff Control program. Individuals includes, but is not limited to, individuals responsible for conducting site plan reviews, site inspections, and/or enforcement. The permittee must ensure that previously trained individuals attend a refresher-training every three (3) calendar years following the initial training. [Minn. R. 7090]*

BMP Description

- Ramsey County's Construction Site Runoff Control Policy includes guidance for the appropriate training for personnel in our departments that are most likely to be involved in construction project planning and oversight: Public Works and Parks and Recreation. The training options include Minnesota State training programs in Construction Site Management, Construction Installer, and Design of Construction SWPPP.
- Ramsey County Property Management personnel are occasionally involved with construction projects. They are not expected to maintain these certifications. These projects use consultants and contractor with the appropriate training. Ramsey County Public Works Environmental Services Division provides oversight support when needed.
- Public Works personnel are required to maintain these certifications. Tracking of the training is handled by their individual division within their departments.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Utility and Right of Way Coordinator– Ramsey County Public Works
 Highway Maintenance Supervisor / General Supervisor – Ramsey County Public Works
 Construction Engineer – Ramsey County Public Works
 Construction Technician – Ramsey County Public Works
 Landscape Architect – Ramsey County Parks and Recreation
 Environmental Resource Specialist – Ramsey County Parks and Recreation

19.12 *The permittee must maintain written enforcement response procedures (ERPs) to compel compliance with the permittee's regulatory mechanism(s) in item 19.3. At a minimum, the written ERPs must include: a. a description of enforcement tools available to the permittee and guidelines for the use of each tool; and b. name or position title of responsible person(s) for conducting enforcement. [Minn. R. 7090]*

BMP Description

- Ramsey County's ROW Ordinance includes a detailed description of enforcement response for non-compliance with inspection directives under Section 1.22 Supplementary Notification

Responsible Staff

Utility and Right of Way Coordinator– Ramsey County Public Works
 Utility and Right of Way Inspector– Ramsey County Public Works

<p>19.13</p>	<p><i>For each site plan review conducted by the permittee, the permittee must document the following: a. project name; b. location; c. total acreage to be disturbed; d. owner and operator of the proposed construction activity; e. proof of notification to obtain coverage under the CSW Permit, as required in item 19.6, or proof of coverage under the CSW Permit; and f. any stormwater related comments and supporting completed checklist, as required in item 19.6, used by the permittee to determine project approval or denial. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County’s ROW Permit site plan review form includes the necessary data required by this item • Ramsey County’s project SWPPP review checklist includes the data required by this item <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> • Ramsey County will make sure the site plan review check list is included in the transition to the fully electronic permitting system <ul style="list-style-type: none"> ○ Implementation timeline - 2022 <p><u>Responsible Staff</u> Utility and Right of Way Coordinator– Ramsey County Public Works Utility and Right of Way Inspector– Ramsey County Public Works Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>19.14</p>	<p><i>For each training in item 19.11, the permittee must document: a. general subject matter covered; b. names and departments of individuals in attendance; and c. date of each event. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County collects and reports personnel receiving CSW related training during our MS4 SWPPP Annual Report <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist / MS4 Coordinator – Ramsey County Public Works</p>
<p>19.15</p>	<p><i>The permittee must document any enforcement conducted pursuant to the ERPs in item 19.12, including verbal warnings. At a minimum, the permittee must document the following: a. name of the person responsible for violating the terms and conditions of the permittee's regulatory mechanism(s); b. date(s) and location(s) of the observed violation(s); c. description of the violation(s); d. corrective action(s) (including completion schedule) issued by the permittee; e. referrals to other regulatory organizations (if any); and f. date(s) violation(s) resolved. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County’s ROW Permit Office currently records violation data on their permit inspection forms. They will retain data related to enforcement results and referrals to other regulatory organizations. Verbal warning are not documented in their current system. <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> • Incorporate the ROW Permit violation data related to site inspections into the new electronic permit format • Add verbal warning data to the electronic system <ul style="list-style-type: none"> ○ Implementation Timeline – 2022 <p><u>Responsible Staff</u> Utility and Right of Way Coordinator– Ramsey County Public Works Utility and Right of Way Inspector– Ramsey County Public Works</p>

	Environmental Resource Specialist / MS4 Coordinator – Ramsey County Public Works
19.16	<p><i>The permittee must conduct an annual assessment of the Construction Site Stormwater Runoff Control program to evaluate program compliance, the status of achieving the measurable requirements in Section 19, and determine how the program might be improved. Measurable requirements are activities that must be documented or tracked as applicable to the MCM (e.g., inventory, trainings, site plan reviews, inspections, enforcement, etc.). The permittee must perform the annual assessment prior to completion of each annual report and document any modifications made to the program as a result of the annual assessment. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County collects the data required by this item and reports the results in the MS4 SWPPP Annual Report on our stormwater web page: https://www.ramseycounty.us/residents/environment/stormwater-management <p><u>Performance Criteria</u></p> <ul style="list-style-type: none"> • 19.2 & 19.3 – Construction Stormwater Program and Regulatory Mechanism <ul style="list-style-type: none"> ○ # of ROW Permits issued ○ # of projects inspected by Ramsey County Parks Soil and Water Division ○ # of NPDES CSW permitted county construction projects ○ # of non CSW permitted county construction projects • 19.6 - Site Plan Review <ul style="list-style-type: none"> ○ # of ROW Permit applications identified for site plan review ○ # of site plan reviews of county construction and maintenance projects • 19.8 – Site Prioritization <ul style="list-style-type: none"> ○ # of ROW permitted projects identified for expanded oversight ○ # of county construction projects identified for expanded oversight • 19.9 – Site inspections <ul style="list-style-type: none"> ○ # of CSW site inspections performed on <ul style="list-style-type: none"> ▪ ROW permittees ▪ Ramsey County construction projects ▪ Ramsey County maintenance projects ○ # of CSW site inspections performed under contract by the Park Dept S&W Conservation Division • 19.10 – Receipt of noncompliance and other stormwater related questions <ul style="list-style-type: none"> ○ # of complaints received on <ul style="list-style-type: none"> ▪ County construction and maintenance projects ▪ County ROW Permittees • 19.14 – Employee CSW training <ul style="list-style-type: none"> ○ # of employees trained by course, date, job title, and department • 19.15 – CSW enforcement response <ul style="list-style-type: none"> ○ # of violation directives and their results from ROW Permit inspections ○ # of contracted inspections by Parks S&W division resulting in compliance directives <p><u>Responsible Staff</u></p> <p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist / MS4 Coordinator – Ramsey County Public Works</p>

20.1	MCM 5: Post-Construction Stormwater Management. [Minn. R. 7090]
20.2	<p><i>New permittees must develop, implement, and enforce, and existing permittees must revise their current program, as necessary, and continue to implement and enforce, a Post-Construction Stormwater Management program that prevents or reduces water pollution after construction activity is completed. The program must address construction activity with land disturbance of greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, within the permittee's jurisdiction and that discharge to the permittee's MS4. The permittee must incorporate Section 20 requirements into their program. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County has drafted a Post-Construction Stormwater Management policy to comply with this section of the permit. The policy includes the following goals: <ul style="list-style-type: none"> ○ Meeting the post-construction standards established by regulated MS4 water management organizations as required for the implementation of development, redevelopment, or linear projects, including alternative compliance sequencing, if necessary. ○ Identifying all components of its MS4 system, as defined by construction, easement, or ownership records and agreements, and compiling pertinent BMP design, easement, and maintenance agreement information. ○ Developing an internal MS4 permit coordination group to include representation from all departments involved in fulfilling County MS4 permit requirements. ○ Participating in cooperative regional BMP development, volume credit, or MS4 system maintenance projects, subject to available funding, with adjacent municipal or other MS4 entities, with cost distribution based on relative contributing runoff volume and parcel ownership, or other mutually agreed upon method. • Ramsey County construction projects use structural BMPs approved by MNDOT, and projects are regulated under permits issued by the MPCA, the applicable local watershed district, and other local government entities. • Ramsey County Right of Way Permit project applications are evaluated for appropriate post-construction BMPs. This is detailed further in item 20.3. • Additional non-structural BMPs are listed under MCM-1. • Ramsey County participates in preliminary design meetings on projects where BMPs are evaluated by all affected parties. Cities that are partners with Ramsey County on projects can review plans and discuss maintenance and cost share agreements while identifying maintenance responsibilities through project agreements. <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> • Review the Post-Construction Stormwater Management policy for any potential updates related to the new MS4 permit. <ul style="list-style-type: none"> ○ Implementation timeline – Early 2022 <p><u>Responsible Staff</u></p> <p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist / MS4 Coordinator – Ramsey County Public Works Highway Maintenance Supervisor – Ramsey County Public Works Highway Maintenance General Supervisor – Ramsey County Public Works Construction Engineer – Ramsey County Public Works Construction Technician – Ramsey County Public Works Landscape Architect – Ramsey County Parks and Recreation Director of Operations – Parks, Trails Aquatics – Ramsey County Parks and Recreation Environmental Resource Specialist – Ramsey County Parks and Recreation Building Services Manager – Ramsey County Property Management Director of Building Operations – Ramsey County Property Management</p>

<p>20.3</p>	<p><i>To the extent allowable under state or local law, the permittee must develop, implement, and enforce a regulatory mechanism(s) that incorporates items 20.4 through 20.15. A regulatory mechanism(s) for the purposes of the General Permit may consist of contract language, an ordinance, permits, standards, written policies, operational plans, legal agreements, or any other mechanism, that will be enforced by the permittee. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County does not have the regulatory authority to implement a Construction Site Stormwater Runoff Control Program to the extent required by the permit. The county does believe in the purpose of this requirement and in addition to the Post-Construction Stormwater Policy the following post-construction stormwater standards have been incorporated into the ROW Permit: <ul style="list-style-type: none"> ○ Development projects applying for a Right of Way (ROW) Permit to discharge post-construction run-off into Ramsey County's MS4 are reviewed to ensure that <ul style="list-style-type: none"> ▪ There are BMPs in place to maintain peak discharge rates and maximize pre-treatment ▪ Stormwater ponds must be designed so that the 100-year storm event elevation is at least one foot below the roadway low point. ▪ Projects are restricted from routing stormwater over curbs and onto roadways. <p><u>Responsible Staff</u> Utility and Right of Way Coordinator– Ramsey County Public Works Utility and Right of Way Inspector– Ramsey County Public Works Ramsey County Public Works Site Plan Review Group</p>
<p>20.4</p>	<p><i>The permittee's regulatory mechanism(s) must require owners of construction activity to submit site plans with post-construction stormwater management BMPs designed with accepted engineering practices to the permittee for review and confirmation that regulatory mechanism(s) requirements have been met, prior to start of construction activity. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County's ROW permit application includes the requirement that applicants submit one set of construction plans with their application to enable our site plan review <p><u>Responsible Staff</u> Utility and Right of Way Coordinator– Ramsey County Public Works Utility and Right of Way Inspector– Ramsey County Public Works Ramsey County Public Works Site Plan Review Group</p>
<p>20.5</p>	<p><i>The permittee's regulatory mechanism(s) must require owners of construction activity to treat the water quality volume on any project where the sum of the new impervious surface and the fully reconstructed impervious surface equals one or more acres. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County does not have the authority to regulate this item as described. Fortunately, most of the county includes municipalities and watershed organizations that can regulate this activity. • Our ROW Permit application and site plan review include provisions to verify that eligible applicants have obtained the required permits. <p><u>Responsible Staff</u> Utility and Right of Way Coordinator– Ramsey County Public Works Utility and Right of Way Inspector– Ramsey County Public Works</p>

- 20.6 - 20.6 - For construction activity (excluding linear projects), the water quality volume must be calculated as one (1) inch times the sum of the new and the fully reconstructed impervious surface. [Minn. R. 7090]
- 20.16 - 20.7 - For linear projects, the water quality volume must be calculated as the larger of one (1) inch times the new impervious surface or one-half (0.5) inch times the sum of the new and the fully reconstructed impervious surface. Where the entire water quality volume cannot be treated within the existing right-of-way, a reasonable attempt to obtain additional right-of-way, easement, or other permission to treat the stormwater during the project planning process must be made. Volume reduction practices must be considered first, as described in item 20.8. Volume reduction practices are not required if the practices cannot be provided cost effectively. If additional right-of-way, easements, or other permission cannot be obtained, owners of construction activity must maximize the treatment of the water quality volume prior to discharge from the MS4. [Minn. R. 7090]
- 20.8 - Volume reduction practices (e.g., infiltration or other) to retain the water quality volume on-site must be considered first when designing the permanent stormwater treatment system. The General Permit does not consider wet sedimentation basins and filtration systems to be volume reduction practices. If the General Permit prohibits infiltration as described in item 20.9, other volume reduction practices, a wet sedimentation basin, or filtration basin may be considered. [Minn. R. 7090]
- 20.9 - Infiltration systems must be prohibited when the system would be constructed in areas: a. that receive discharges from vehicle fueling and maintenance areas, regardless of the amount of new and fully reconstructed impervious surface; b. where high levels of contaminants in soil or groundwater may be mobilized by the infiltrating stormwater. To make this determination, the owners and/or operators of construction activity must complete the Agency's site screening assessment checklist, which is available in the Minnesota Stormwater Manual, or conduct their own assessment. The assessment must be retained with the site plans; c. where soil infiltration rates are more than 8.3 inches per hour unless soils are amended to slow the infiltration rate below 8.3 inches per hour; d. with less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock; e. of predominately Hydrologic Soil Group D (clay) soils; f. in an Emergency Response Area (ERA) within a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, Subp. 13, classified as high or very high vulnerability as defined by the Minnesota Department of Health; g. in an ERA within a DWSMA classified as moderate vulnerability unless the permittee performs or approves a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater; h. outside of an ERA within a DWSMA classified as high or very high vulnerability unless the permittee performs or approves a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater; i. within 1,000 feet up-gradient or 100 feet down gradient of active karst features; or j. that receive stormwater runoff from these types of entities regulated under NPDES for industrial stormwater: automobile salvage yards; scrap recycling and waste recycling facilities; hazardous waste treatment, storage, or disposal facilities; or air transportation facilities that conduct deicing activities. See "higher level of engineering review" in the Minnesota Stormwater Manual for more information. [Minn. R. 7090]
- 20.10 - For non-linear projects, where the water quality volume cannot cost effectively be treated on the site of the original construction activity, the permittee must identify, or may require owners of the construction activity to identify, locations where off-site treatment projects can be completed. If the entire water quality volume is not addressed on the site of the original construction activity, the remaining water quality volume must be addressed through off-site treatment and, at a minimum, ensure the requirements of items 20.11 through 20.14 are met. [Minn. R. 7090]
- 20.11 - The permittee must ensure off-site treatment project areas are selected in the following order of preference: a. locations that yield benefits to the same receiving water that receives runoff from the original construction activity; b. locations within the same Department of Natural Resource (DNR) catchment area as the original construction activity; c. locations in the next adjacent DNR catchment area up-stream; or d. locations anywhere within the permittee's jurisdiction. [Minn. R. 7090]
- 20.12 - Off-site treatment projects must involve the creation of new structural stormwater BMPs or the retrofit of existing structural stormwater BMPs, or the use of a properly designed regional structural stormwater BMP. Routine maintenance of structural stormwater BMPs already required by the General Permit cannot be used to meet this requirement. [Minn. R. 7090]
- 20.13 - Off-site treatment projects must be completed no later than 24 months after the start of the original construction activity. If the permittee determines more time is needed to complete the treatment project, the permittee must provide the reason(s) and schedule(s) for completing the project in the annual report. [Minn. R. 7090]

20.14 - If the permittee receives payment from the owner of a construction activity for off-site treatment, the permittee must apply any such payment received to a public stormwater project, and all projects must comply with the requirements in items 20.11 through 20.13. [Minn. R. 7090]

20.15 - The permittee's regulatory mechanism(s) must include the establishment of legal mechanism(s) between the permittee and owners of structural stormwater BMPs not owned or operated by the permittee, that have been constructed to meet the requirements in Section 20. The legal mechanism(s) must include provisions that, at a minimum:
 a. allow the permittee to conduct inspections of structural stormwater BMPs not owned or operated by the permittee, perform necessary maintenance, and assess costs for those structural stormwater BMPs when the permittee determines the owner of that structural stormwater BMP has not ensured proper function; b. are designed to preserve the permittee's right to ensure maintenance responsibility, for structural stormwater BMPs not owned or operated by the permittee, when those responsibilities are legally transferred to another party; and c. are designed to protect/preserve structural stormwater BMPs. If structural stormwater BMPs change, causing decreased effectiveness, new, repaired, or improved structural stormwater BMPs must be implemented to provide equivalent treatment to the original BMP. [Minn. R. 7090]

20.16 - The permittee must maintain a written or mapped inventory of structural stormwater BMPs not owned or operated by the permittee that meet all of the following criteria: a. the structural stormwater BMP includes an executed legal mechanism(s) between the permittee and owners responsible for the long-term maintenance, as required in item 20.15; and b. the structural stormwater BMP was implemented on or after August 1, 2013. [Minn. R. 7090]

BMP Description

- Ramsey County does not have the authority to regulate this item as described. Fortunately, most of the county includes municipalities and watershed organizations that can regulate this activity.
- Ramsey County makes it our policy to comply with these requirements for our own permitted projects with other regulatory agencies to the best extent practicable.

Responsible Staff

Ramsey County Public Works Site Plan Review Group

20.17 *The permittee must implement written procedures for site plan reviews conducted by the permittee prior to the start of construction activity, to ensure compliance with requirements of the permittee's regulatory mechanism(s). [Minn. R. 7090]*

BMP Description

- Ramsey County does not have the authority to regulate this item as described. Fortunately, most of the county includes municipalities and watershed organizations that can regulate this activity.
- Ramsey County does make it our policy to work to comply with these requirements for our own permitted projects with other regulatory agencies to the best extent practicable.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist / MS4 Coordinator – Ramsey County Public Works
 Highway Maintenance Supervisor – Ramsey County Public Works
 Highway Maintenance General Supervisor – Ramsey County Public Works
 Construction Engineer – Ramsey County Public Works
 Construction Technician – Ramsey County Public Works
 Landscape Architect – Ramsey County Parks and Recreation
 Director of Operations – Parks, Trails Aquatics – Ramsey County Parks and Recreation
 Environmental Resource Specialist – Ramsey County Parks and Recreation
 Building Services Manager – Ramsey County Property Management
 Director of Building Operations – Ramsey County Property Management

<p>20.18</p>	<p><i>The permittee must ensure that individuals receive training commensurate with their responsibilities as they relate to the permittee's Post-Construction Stormwater Management program. Individuals includes, but is not limited to, individuals responsible for conducting site plan reviews and/or enforcement. The permittee must ensure that previously trained individuals attend a refresher-training every three (3) calendar years following the initial training. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County's Construction Site Runoff Control Policy (<i>Item 19.11</i>) includes guidance for the appropriate training for personnel in our departments that are most likely to be involved in construction project planning and design: Public Works and Parks and Recreation. Personnel involved in this process for Ramsey County projects are requirement to acquire and maintain MN State certification in Design of Construction SWPPP. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist – Ramsey County Public Works Construction Engineer – Ramsey County Public Works Construction Technician – Ramsey County Public Works Landscape Architect – Ramsey County Parks and Recreation Director of Operations – Parks, Trails Aquatics – Ramsey County Parks and Recreation</p>
<p>20.19</p>	<p><i>The permittee must maintain written enforcement response procedures (ERPs) to compel compliance with the permittee's regulatory mechanism(s) required in Section 20. At a minimum, the written ERPs must include: a. a description of enforcement tools available to the permittee and guidelines for the use of each tool; and b. name or position title of responsible person(s) for conducting enforcement. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County's lack of the authority to regulate this item as described eliminates the need to maintain an ERP related to this provision. Fortunately, most of the county includes municipalities and watershed organizations that can regulate this activity.
<p>20.20</p>	<p><i>For each site plan review conducted by the permittee, the permittee must document the following: a. supporting documentation used to determine compliance with Section 20 of the General Permit, including any calculations for the permanent stormwater treatment system; b. the water quality volume that will be treated through volume reduction practices (e.g., infiltration or other) compared to the total water quality volume required to be treated; c. documentation associated with off-site treatment projects authorized by the permittee, including rationale to support the location of permanent stormwater treatment projects in accordance with items 20.10 and 20.11; d. payments received and used in accordance with item 20.14; and e. all legal mechanisms drafted in accordance with item 20.15, including date(s) of the agreement(s) and name(s) of all responsible parties involved. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> For ROW Permit Applications requiring a site plan review, projects are reviewed to ensure they do not increase the rate stormwater enters our MS4. Ramsey County does not otherwise have the regulatory authority to enforce this item's provisions outside of our ROW. Any ROW Permitted projects triggering these requirements will be subject to the required level of review by the many municipalities and watershed organizations that do have regulatory authority. Ramsey County projects that are subject to these requirements under the permitting authority of other county regulated MS4s go through this level of review during the permit application process. Ramsey County Post-Construction Stormwater Management policy dictates that we fulfill these requirements to the fullest extent possible. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works</p>

	<p>Environmental Resource Specialist – Ramsey County Public Works Construction Engineer – Ramsey County Public Works Construction Technician – Ramsey County Public Works Senior Transportation Planner – Ramsey County Public Works Landscape Architect – Ramsey County Parks and Recreation Director of Operations – Parks, Trails Aquatics – Ramsey County Parks and Recreation</p>
<p>20.21</p>	<p><i>For each training in item 20.18, the permittee must document: a. general subject matter covered; b. names and departments of individuals in attendance; and c. date of each event. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Training data related to this requirement is collected by the responsible county divisions under <i>Item 19.11</i> <p><u>Responsible Staff</u></p> <p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Construction Engineer – Ramsey County Public Works Construction Technician – Ramsey County Public Works Landscape Architect – Ramsey County Parks and Recreation</p>
<p>20.22</p>	<p><i>The permittee must document any enforcement conducted pursuant to the ERPs in item 20.19, including verbal warnings. At a minimum, the permittee must document the following: a. name of the person responsible for violating the terms and conditions of the permittee's regulatory mechanism(s); b. date(s) and location(s) of the observed violation(s); c. description of the violation(s); d. corrective action(s) (including completion schedule) issued by the permittee; e. referrals to other regulatory organizations (if any); and f. date(s) violation(s) resolved. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County does not have the regulatory authority to enforce most of the requirements in this MCM. Projects that are determined to not comply with the requirements for our ROW permit are denied a permit until they adjust their plans accordingly. Any projects that are determined to incorrectly implement their submitted plans are subject to the ROW Permit ERPs as described in <i>Item 19.12</i>. these are reported in <i>Item 19.16</i> <p><u>Responsible Staff</u></p> <p>Utility and Right of Way Coordinator– Ramsey County Public Works Utility and Right of Way Inspector– Ramsey County Public Works</p>
<p>20.23</p>	<p><i>The permittee must conduct an annual assessment of the Post-Construction Stormwater Management program to evaluate program compliance, the status of achieving the measurable requirements in Section 20, and determine how the program might be improved. Measurable requirements are activities that must be documented or tracked as applicable to the MCM (e.g., inventory, trainings, site plan reviews, inspections, enforcement, etc.). The permittee must perform the annual assessment prior to completion of each annual report and document any modifications made to the program as a result of the annual assessment. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County collects the data required by this item and reports the results in our MS4 SWPPP Annual Report on our stormwater web page: https://www.ramseycounty.us/residents/environment/stormwater-management <p><u>Performance Criteria</u></p> <ul style="list-style-type: none"> • 20.4 – Site plan reviews <ul style="list-style-type: none"> ○ # of ROW Permit applications submitting engineer’s plans for site plan reviews • 20.5 – ROW permit applications <ul style="list-style-type: none"> ○ # of ROW permit applications needing permits from other regulated MS4s or from the MPCA CSW program

- 20.7 - Volume reduction
 - # and list of Ramsey County construction and maintenance projects requiring permits from other regulated MS4s for volume reduction practices
- 20.9 – Volume reduction sequencing
 - List of Ramsey County construction and maintenance projects requiring sequencing for volume reduction practices due to design and installation restrictions
- 20.11 – Offsite treatment
 - List Ramsey County construction and maintenance projects requiring off-site treatment options
- 20.14 – Stormwater funds
 - List of Ramsey County construction and maintenance projects that complied with other regulated MS4 permit requirements by paying into a stormwater fund or equivalent program.
- 20.15 – Maintenance and cooperative agreements
 - List of Ramsey County construction and maintenance projects requiring maintenance agreements from other regulated MS4’s permit programs.
- 20.17 – Permitting site plan review
 - # of Ramsey County construction and maintenance projects requiring review of volume reduction practices in preparation for applying for a permit from another regulated MS4.
- 20.20 – Permit application site plan review
 - List the Ramsey County construction and maintenance projects going through the permit review process for another regulated MS4
- 20.21 – Site Plan review training
 - The training data for this item is reported in the performance criteria for *Item 19.14* under *Item 19.16*.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works

21.1 MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations. [Minn. R. 7090]

21.2 *New permittees must develop and implement, and existing permittees must revise their current program, as necessary, and continue to implement, an operations and maintenance program that prevents or reduces the discharge of pollutants to the MS4 from permittee owned/operated facilities and operations. The permittee must incorporate Section 21 requirements into their program. [Minn. R. 7090]*

BMP Description

- Ramey County’s operation and maintenance program includes an inspection schedule of the county’s BMPs and facilities supported by relevant protocols for inspection and assessment of our infrastructure. This program is further elaborated in the rest of MCM 6.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Highway Maintenance Supervisor – Ramsey County Public Works
 Highway Maintenance General Supervisor – Ramsey County Public Works
 Director of Operations – Parks, Trails Aquatics – Ramsey County Parks and Recreation
 Environmental Resource Specialist – Ramsey County Parks and Recreation
 Building Services Manager – Ramsey County Property Management
 Director of Building Operations – Ramey County Property Management

<p>21.3</p>	<p><i>The permittee must maintain a written or mapped inventory of permittee owned/operated facilities that contribute pollutants to stormwater discharges. The permittee must implement BMPs that prevent or reduce pollutants in stormwater discharges from all inventoried facilities. Facilities to be inventoried may include, but is not limited to:</i></p> <ul style="list-style-type: none"> <i>a. composting;</i> <i>b. equipment storage and maintenance;</i> <i>c. hazardous waste disposal;</i> <i>d. hazardous waste handling and transfer;</i> <i>e. landfills;</i> <i>f. solid waste handling and transfer;</i> <i>g. parks;</i> <i>h. pesticide storage;</i> <i>i. public parking lots;</i> <i>j. public golf courses;</i> <i>k. public swimming pools;</i> <i>l. public works yards;</i> <i>m. recycling;</i> <i>n. salt storage;</i> <i>o. snow storage;</i> <i>p. vehicle storage and maintenance (e.g., fueling and washing) yards; and</i> <i>q. materials storage yards. [Minn. R. 7090]</i> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County currently maintains an inventory on most of the facilities listed in the permit. Some remaining items are addressed below. <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> • Complete inventory and locations of salt and snow storage areas at all county facilities and add the locations to each facility’s SWPPP. <ul style="list-style-type: none"> ○ Implementation timeline – late 2021 • Complete inventory and locations of pesticide storage and use at all county facilities. <ul style="list-style-type: none"> ○ Implementation timeline – late 2021 • Consolidate the locations of all items into one master GIS MS4 map to be managed by Public Works Environmental Services Division. <ul style="list-style-type: none"> ○ Implementation timeline – late 2021 <p><u>Responsible Staff</u></p> <p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>21.4</p>	<p><i>The permittee must implement BMPs that prevent or reduce pollutants in stormwater discharges from the following municipal operations that may contribute pollutants to stormwater discharges, where applicable:</i></p> <ul style="list-style-type: none"> <i>a. waste disposal and storage, including dumpsters;</i> <i>b. management of temporary and permanent stockpiles of materials such as street sweepings, snow, sand and sediment removal piles (e.g., effective sediment controls at the base of stockpiles on the downgradient perimeter);</i> <i>c. vehicle fueling, washing, and maintenance;</i> <i>d. routine street and parking lot sweeping;</i> <i>e. emergency response;</i> <i>f. cleaning of maintenance equipment, building exteriors, dumpsters, and the disposal of associated waste and wastewater;</i> <i>g. use, storage, and disposal of significant materials;</i>

- h. landscaping, park, and lawn maintenance;*
- i. road maintenance, including pothole repair, road shoulder maintenance, pavement marking, sealing, and repaving;*
- j. right-of-way maintenance, including mowing; and*
- k. application of herbicides, pesticides, and fertilizers. [Minn. R. 7090]*

BMP Description

- *Items a-c* – Ramsey County facility SWPPPs address these items. Public Works facilities and county yard waste sites are inspected regularly by trained personnel.
- *Item d* – Sweeping of the county roads occurs twice per year with special emphasis on roadways adjacent to lakes or drainage areas. Ramsey County has a street sweeping protocol that addresses proper handling and disposal of street sweepings. Our facility SWPPPs include oversight over managing any street sweeping related stockpiles.
- *Item e* – Emergency response is addressed by Ramsey County’s spill response protocol and in the Public Works’ Maintenance Division’s Critical Incident Action Plan and Oil Spill Procedure.
- *Items f & g* – Public Works facility SWPPPs cover these items. We will update or add SWPPPs for Parks and Recreation and Public Health facilities as needed to comply with these items.
- *Item h* – See *Item k*
- *Item i* – This item is addressed by Ramsey County’s Spill Prevention and Response Training
- *Item j* – Ramsey County Public Works keeps maps of grass maintenance areas on county ROW
- *Item k* – Ramsey County does not currently have an herbicide, pesticide, and fertilizer specific policy beyond our spill prevention and response training. Field staff responsible for lawn maintenance are encouraged to attend the MPCA’s [Summer Turf Grass Maintenance Training](#).

BMPs to be Implemented

- Review facility SWPPPs for necessary changes to better address the items in this section.
 - Implementation timeline – Early 2022
- Review and determine whether the MPCA’s Summer Turf Grass Maintenance training sufficiently addresses *items h, j, and k*.
 - Implementation timeline - Early 2022

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works
 Highway Maintenance Supervisor – Ramsey County Public Works
 Highway Maintenance General Supervisor – Ramsey County Public Works
 Director of Operations – Parks, Trails Aquatics – Ramsey County Parks and Recreation
 Environmental Resource Specialist – Ramsey County Parks and Recreation
 Building Services Manager – Ramsey County Property Management
 Director of Building Operations – Ramey County Property Management

- 21.5 *The permittee must implement the following BMPs at permittee owned/operated salt storage areas:*
- a. cover or store salt indoors;*
 - b. store salt on an impervious surface; and*
 - c. implement practices to reduce exposure when transferring material from salt storage areas (e.g., sweeping, diversions, and/or containment). [Minn. R. 7090]*

BMP Description

	<ul style="list-style-type: none"> Ramsey Count has drafted a Snow and Ice Control Protocol that includes guidance on salt storage. There are site maps for county locations where snow and salt are stockpiled during normal winters. <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> Review our snow and ice control protocols and policies to find and address areas with room for improvement. <p><u>Responsible Staff</u></p> <p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Highway Maintenance Supervisor – Ramsey County Public Works Highway Maintenance General Supervisor – Ramsey County Public Works Director of Operations – Parks, Trails Aquatics – Ramsey County Parks and Recreation Environmental Resource Specialist – Ramsey County Parks and Recreation Building Services Manager – Ramsey County Property Management Director of Building Operations – Ramey County Property Management Environmental Health Supervisor – Ramsey County Public Health</p>
<p>21.6</p>	<p><i>The permittee must implement a written snow and ice management policy for individuals that perform winter maintenance activities for the permittee. The policy must establish practices and procedures for snow and ice control operations (e.g., plowing or other snow removal practices, sand use, and application of deicing compounds). [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County’s snow and ice control policy details methods for maximizing public safety while reducing the use of salt used to clear the roadways. <p><u>Responsible Staff</u></p> <p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Highway Maintenance Supervisor – Ramsey County Public Works Highway Maintenance General Supervisor – Ramsey County Public Works Highway Maintenance Engineer – Ramsey County Public Works</p>
<p>21.7</p>	<p><i>Each calendar year, the permittee must ensure all individuals that perform winter maintenance activities for the permittee receive training that includes:</i></p> <p><i>a. the importance of protecting water quality;</i></p> <p><i>b. BMPs to minimize the use of deicers (e.g., proper calibration of equipment and benefits of pretreatment, pre-wetting, and anti-icing); and</i></p> <p><i>c. tools and resources to assist in winter maintenance (e.g., deicing application rate guidelines, calibration charts, Smart Salting Assessment Tool).</i></p> <p><i>The permittee may use training materials from the Agency's Smart Salting training or other organizations to meet this requirement. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County Public Works winter road maintenance personnel receive training for salt application that includes pre-wetting, anti-icing treatment, and metered application rates to maintain roadway safety and manage the amount of salt applied on Ramsey County managed roadways each winter. Ramsey County staff involved in winter snow and ice removal regularly attend the MPCA’s Smart Salting Training. Our Public Works Department occasionally promotes and host training sessions. <p><u>Responsible Staff</u></p> <p>Highway Maintenance Supervisor – Ramsey County Public Works</p>

	<p>Highway Maintenance General Supervisor – Ramsey County Public Works Deputy Director of Highway Maintenance – Ramsey County Public Works Park Maintenance and Operations Supervisor – Ramsey County Parks and Recreation Environmental Resource Specialist – Ramsey County Parks and Recreation Building Services Manager – Ramsey County Property Management Director of Building Operations – Ramsey County Property Management</p>
<p>21.8</p>	<p><i>The permittee must maintain written procedures for the purpose of determining the TSS and TP treatment effectiveness of all permittee owned/operated ponds constructed and used for the collection and treatment of stormwater. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County assesses TSS and TP removal effectiveness in our stormwater ponds by gauging sediment levels on a five-year schedule. The Pond Inspection Protocol includes a Sediment Sampling protocol with detailed instructions on how to gauge a pond and map the remaining sediment capacity. Ponds, or sections of ponds, approaching 50% of their sediment capacity are scheduled for dredging. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Park Maintenance and Operations Supervisor – Ramsey County Parks and Recreation</p>
<p>21.9</p>	<p><i>The permittee must inspect structural stormwater BMPs (excluding stormwater ponds, which are under a separate schedule below) each calendar year to determine structural integrity, proper function, and maintenance needs unless the permittee determines either of the following conditions apply:</i></p> <p><i>a. complaints received or patterns of maintenance indicate a greater frequency is necessary; or</i> <i>b. maintenance or sediment removal is not required after completion of the first two calendar year inspections; in which case the permittee may reduce the frequency of inspections to once every two (2) calendar years. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County currently inspects structural BMPs on an annual basis. <ul style="list-style-type: none"> ○ Infiltration and trash collection BMPs will continue to be inspected annually ○ Sediment sumps, which are mostly located in catch basins, are currently being assessed for the needed inspection and cleanout frequency on an individual basis. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Park Maintenance and Operations Supervisor – Ramsey County Parks and Recreation Highway Maintenance Supervisor – Ramsey County Public Works</p>
<p>21.10</p>	<p><i>Prior to the expiration date of the General Permit, the permittee must conduct at least one inspection of all ponds and outfalls (excluding underground outfalls) in order to determine structural integrity, proper function, and maintenance needs. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County’s surface outfalls are inspected on a five-year schedule • Ramsey County’s stormwater ponds are surveyed for remaining sediment capacity on a five-year schedule. The ponds are inspected annually for bank and structural integrity. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works</p>

	<p>Environmental Resource Specialist– Ramsey County Public Works Park Maintenance and Operations Supervisor – Ramsey County Parks and Recreation</p>
<p>21.11</p>	<p><i>Based on inspection findings, the permittee must determine if repair, replacement, or maintenance measures are necessary in order to ensure the structural integrity and proper function of structural stormwater BMPs and outfalls. The permittee must complete necessary maintenance as soon as possible. If the permittee determines necessary maintenance cannot be completed within one year of discovery, the permittee must document a schedule(s) for completing the maintenance. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County maintains a list of stormwater BMPs and outfalls that require maintenance. • BMPs that are not repaired at the end of the calendar year are identified and reported in our MS4 SWPPP Annual report. • Our Public Works Department has a maintenance crew that is assigned to perform repairs on stormwater infrastructure <p><u>BMPs to be Implemented</u></p> <ul style="list-style-type: none"> • Ramsey County is currently converting to a web-based asset management program. When fully implemented, BMP inspectors will be able to open a repair ticket. The structure will be tracked through the repair process. Structures requiring frequent repairs will be able to be identified for possible replacement. <ul style="list-style-type: none"> ○ Implementation Timeline - 2022 <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Park Maintenance and Operations Supervisor – Ramsey County Parks and Recreation Highway Maintenance Supervisor – Ramsey County Public Works</p>
<p>21.12</p>	<p><i>The permittee must implement a stormwater management training program commensurate with individual's responsibilities as they relate to the permittee's SWPPP, including reporting and assessment activities. The permittee may use training materials from the United States Environmental Protection Agency (USEPA), state and regional agencies, or other organizations as appropriate to meet this requirement. The training program must:</i></p> <p><i>a. address the importance of protecting water quality;</i></p> <p><i>b. cover the requirements of the permit relevant to the responsibilities of the individual not already addressed in items 18.8, 18.9, 19.11, 20.18, and 21.7; and</i></p> <p><i>c. include a schedule that establishes initial training for individuals, including new and/or seasonal employees, and recurring training intervals to address changes in procedures, practices, techniques, or requirements. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County Public Works Environmental Services Division is primarily responsible for inspections and assessments related to stormwater management. In addition to the training detailed in the above referenced items, they regularly go through additional training from outside agencies and internally upon hiring including the following: <ul style="list-style-type: none"> ○ Pond, infiltration BMPs , and structural BMP inspections ○ Stormwater modeling ○ Participation in Technical Advisory Committees on projects researching and developing new stormwater quality treatment techniques ○ Lake management / Monitoring ○ Wetland Monitoring/Assessments ○ Minnesota Water Resources Conference ○ Watershed District Forums

	<p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>21.13</p>	<p><i>The permittee must document the following information associated with the operations and maintenance program: a. date(s) and description of findings, including whether or not an illicit discharge is detected, for all inspections conducted in accordance with items 21.9 and 21.10; b. any adjustments to inspection frequency as authorized in item 21.9; c. date(s) and a description of maintenance conducted as a result of inspection findings, including whether or not an illicit discharge is detected; d. schedule(s) for maintenance of structural stormwater BMPs and outfalls as required in item 21.11; and e. stormwater management training events, including general subject matter covered, names and departments of individuals in attendance, and date of each event. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County collects and reports the data for this item in our MS4 SWPPP Annual Report which is posted on our Stormwater Management web page. • The details of the data report are in the Performance Criteria located in <i>Item 21.15</i>. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>21.14</p>	<p><i>The permittee must document pond sediment excavation and removal activities, including: a. a unique ID number and geographic coordinates of each stormwater pond from which sediment is removed; b. the volume (e.g., cubic yards) of sediment removed from each stormwater pond; c. results from any testing of sediment from each removal activity; and d. location(s) of final disposal of sediment from each stormwater pond. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • <i>Item a</i> - All Ramsey County ponds are assigned a unique ID number and are mapped with GPS coordinates. • <i>Item b</i> - Removal volumes are recorded for pond sediment delta removal and for full pond cleanouts. • <i>Item c</i> – Ramsey County’s Biofiltration Basin, Infiltration Basin, and Pond Inspection Protocol includes our standard protocol for pond sediment sampling. If the volume to be removed exceeds 100 yds³, we require that the sediment is analyzed for grain size, metals, and PAHs. Sediment results are recorded in the pond maintenance files. • <i>Item d</i> – The disposal location of pond sediment following removal is included in the dredging project site plans and retained in our maintenance files. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Highway Maintenance Supervisor – Ramsey County Public Works Highway Maintenance General Supervisor – Ramsey County Public Works Deputy Director of Highway Maintenance – Ramsey County Public Works</p>

21.15 *The permittee must conduct an annual assessment of the operations and maintenance program to evaluate program compliance, the status of achieving the measurable requirements in Section 21, and determine how the program might be improved. Measurable requirements are activities that must be documented or tracked as applicable to the MCM (e.g., inventory, trainings, inspections, maintenance activities, etc.). The permittee must perform the annual assessment prior to completion of each annual report and document any modifications made to the program as a result of the annual assessment. [Minn. R. 7090]*

BMP Description

- Ramsey County collects the data required by this item and reports the results in our MS4 SWPPP Annual Report on our stormwater web page: <https://www.ramseycounty.us/residents/environment/stormwater-management>. We will review the data and determine whether any changes to our program are needed.

Performance Criteria

- 21.3 – Ramsey County Facility Inventory
 - List any new facilities added to Ramsey County’s inventory
 - List any SWPPP updates completed for county facilities
- 21.4 – Pollutant reduction BMPs
 - Street Sweeping
 - # of lane miles swept
 - Total amount of street sweepings recovered (tons)
 - List road corridors and lane miles targeted for additional sweeping
- 21.5 – Salt storage and management
 - List any changes or updates made to the snow and ice handling protocol
- 21.6 – Snow control operations
 - Report salt usage for prior winter season
 - Winter severity
 - # of storm events
 - Total snow fall (inches)
 - Total # of tons of salt used
 - # of tons of salt used per lane mile
- 21.7 – Salt Management Training
 - # of employees trained in smart salting techniques (reported by date, position, and department)
- 21.8 – Pond Assessments
 - # capacity assessments of ponds and sediment basins
 - % of total ponds and sediment basins surveyed
 - Capacity assessment results (% remaining, basins targeted for delta removal or full cleanout)
- 21.9 – Structural Stormwater BMPs
 - # of structural stormwater BMPs inspected
 - % of total inventoried stormwater BMPs
 - # of stormwater BMPs identified for needed maintenance
- 21.10 – Pond and Outfall Inspections
 - # of ponds inspected for structural deficiencies / regular maintenance
 - % of ponds inspected for regular maintenance
 - # of outfalls inspected
 - % of total outfalls inspected plus the projected 5-year total
- 21.11 – Stormwater BMP and Outfall Maintenance
 - # of Stormwater BMPs with maintenance performed
 - # of Stormwater outfalls with maintenance performed

- List remaining BMPs and Outfalls with repair needs, expected completion timeframe
- 21.12 – Additional Stormwater Training
 - List additional training completed, WQ Forums attended, TAP participation by Ramsey County employees
- 21.13 – Outfall Inspections resulting in Illicit Discharge Reports
 - List outfalls with observed illicit discharges and response/results
 - List outfalls with maintenance needs identified (poor quality rating)
- 21.14 – Pond Sediment Removals
 - List pond delta removals
 - List pond sediment cleanout projects
 - Include sediment disposal methods/locations/analysis results

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works

Environmental Resource Specialist– Ramsey County Public Works

22.1 Discharges to Impaired Waters with a USEPA-Approved TMDL that Includes an Applicable WLA. [Minn. R. 7090]

22.2 *If the permittee has an applicable WLA not being met for oxygen demand, nitrate, TSS, or TP, the permittee must provide a summary of the permittee's progress toward achieving those applicable WLAs with the annual report. The summary must include the following information: a. a list of all BMPs applied towards achieving applicable WLAs for oxygen demand, nitrate, TSS, and TP; b. the implementation status of BMPs included in the compliance schedule at the time of final application submittal; and c. an updated estimate of cumulative TSS and TP load reductions. [Minn. R. 7090]*

BMP Description

- Ramsey County has 20 waterbodies with TMDLs.
- Ramsey County WLAs

Bald Eagle Lake Nutrient TMDL-Bald Eagle-(62-0002-00)-TP
Como Lake TMDL (Metro)-Como-(62-0055-00)-TP
Kohlman Lake TMDL-Kohlman-(62-0006-00)-TP
Lake St. Croix Excess Nutrient TMDL-St. Croix-(82-0001-00)-TP
Peltier/Centerville Lake Nutrient Impairment TMDL-Peltier-(02-0004-00)-TP
Ramsey-Washington WD WRAPS 2010-Battle Creek-(07010206-592)-TSS
Ramsey-Washington WD WRAPS 2010-Bennett-(62-0048-00)-TP
Ramsey-Washington WD WRAPS 2010-Wakefield-(62-0011-00)-TP
Rice Creek Watershed District Southwest Urban Lakes - Excess Nutrients TMDL-East Moore-(02-0075-01)-TP
Rice Creek Watershed District Southwest Urban Lakes - Excess Nutrients TMDL-ISLAND (BASIN N. OF I-694) -(62-0075-02)-TP

Rice Creek Watershed District Southwest Urban Lakes - Excess Nutrients TMDL-Island (Basin S.of I-694)-(62-0075-01)-TP
Rice Creek Watershed District Southwest Urban Lakes - Excess Nutrients TMDL-Little Johanna-(62-0058-00)-TP
Rice Creek Watershed District Southwest Urban Lakes - Excess Nutrients TMDL-Long-(62-0067-00)-TP
Rice Creek Watershed District Southwest Urban Lakes - Excess Nutrients TMDL-Pike-(62-0069-00)-TP
Rice Creek Watershed District Southwest Urban Lakes - Excess Nutrients TMDL-Valentine-(62-0071-00)-TP
Silver (West) Lake (Metro)-Silver-(62-0083-00)-TP
South Metro Mississippi TSS TMDL-Mississippi River-(07040001-531)-TSS
Vadnais Lake Area WMO-Goose-(62-0034-00)-TP
Vadnais Lake Area WMO-Unnamed-(62-0126-00)-TP
Vadnais Lake Area WMO-Wilkinson-(62-0043-00)-TP

- Ramsey County reports WLA progress with a spreadsheet in the MPCA MS4 Annual Report. The annual reports are posted on our [Stormwater Management](#) webpage following submittal to the state.

BMPs to be Implemented

- Map Ramsey County maintenance activities such as ditch cleanouts and other sediment removal activities by watershed to add to TMDL WLA compliance activity
 - Implementation timeline - 2022

Performance Criteria

- Ramsey County Public Works Environmental Services Division monitors area lakes for water quality parameters. The lakes are assessed annually using the Metropolitan Council’s Lake Water Quality Report Card. The results and trends are reported in our MS4 SWPPP Annual Report .
- Ramsey County will report chloride levels and trends from our chloride testing program.

Responsible Personnel

Environmental Services Supervisor – Ramsey County Public Works
 Environmental Resource Specialist– Ramsey County Public Works

22.3 *If the permittee has an applicable WLA where a reduction in pollutant loading is required for bacteria, the permittee must maintain a written or mapped inventory of potential areas and sources of bacteria (e.g., dense populations of waterfowl or other bird, dog parks). [Minn. R. 7090]*

BMP Description

- Ramsey County currently has three water bodies impaired for bacteria.
 - Fish Creek in Ramsey-Washington Metro Watershed District (RWMWD) has an *Escherichia coli* (E.coli) impairment and an approved [TMDL](#).

- Rice Creek in Rice Creek Watershed District has an *Escherichia coli* (E. coli) impairment and an approved TMDL.
- Lambert Creek in the Vadnais Lakes Area Water Management Organization (VLAWMO) is impaired for *Escherichia coli* (E. coli) and has an approved [TMDL](#). VLAWMO is the primary agency responsible for the implementation plan.
- None of these TMDLs currently require Ramsey County to report for bacterial WLAs
- Ramsey County does not have dense populations of waterfowl in the contributing drainage areas of Fish Creek or Lambert Creek.
- Ramsey County monitors beaches in Ramsey County Parks for high bacterial levels for public safety. Besides closing beaches, excessive goose populations may be removed if necessary. Our county beach at Long Lake is in the drainage area for Rice Creek.
- Ramsey County has several dog parks throughout the county. None of these are within the contributing drainage areas of Fish Creek or Lambert Creek.

Responsible Staff

Environmental Services Supervisor – Ramsey County Public Works

Environmental Resource Specialist– Ramsey County Public Works

Park Maintenance and Operations Supervisor – Ramsey County Parks and Recreation

22.4 *If the permittee has an applicable WLA where a reduction in pollutant loading is required for bacteria, the permittee must maintain a written plan to prioritize reduction activities to address the areas and sources identified in the inventory in item 22.3. The written plan must include BMPs the permittee will implement over the permit term, which may include, but is not limited to: a. water quality monitoring to determine areas of high bacteria loading; b. installation of pet waste pick-up bags in parks and open spaces; c. elimination of over-spray irrigation that may occur at permittee owned areas; d. removal of organic matter via street sweeping; e. implementation of infiltration structural stormwater BMPs; or f. management of areas that attract dense populations of waterfowl (e.g., riparian plantings). [Minn. R. 7090]*

BMP Description

- Ramsey County does not have a bacterial WLA that requires reporting or a reduction plan.
- Ramsey County Public Works and Parks and Recreation Departments currently have a sweeping protocol to address street sweepings and permeable pavement installations to reduce organic matter accumulations.
- Ramsey County maintains pet waste bag supply stations at our dog parks which are refilled by volunteer groups.
- Ramsey County Parks and Recreation uses contractors with trained dogs to visit select beach locations multiple times per week to driveaway problem goose populations.

22.5 *If the permittee has an applicable WLA where a reduction in pollutant loading is required for chloride, the permittee must document the amount of deicer applied each winter maintenance season to all permittee owned/operated surfaces. [Minn. R. 7090]*

BMP Description

- Ramsey County is part of the Twin Cities Metro Area Chloride TMDL and Management Plan
- Ramsey County has over 300 miles of road that must be managed for snow and ice control each winter. Most of the county’s chloride use is salt application to roadways.
- The Maintenance Division tracks the annual salt use, salt use by event, and by lane mile
- Salt application at Ramsey County facilities may be conducted by county staff or snow removal vendors

BMPs to be implemented

- Determine the feasibility of tracking salt use at county facilities, including contract language requiring deliverables to the county upon completion of the snow and ice season.
 - Implementation timeline - 2022

	<p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Highway Maintenance Supervisor – Ramsey County Public Works Highway Maintenance General Supervisor – Ramsey County Public Works Deputy Director of Highway Maintenance – Ramsey County Public Works Director of Building Operations – Ramsey County Property Management Director of Operations – Ramsey County Parks</p>
<p>22.6</p>	<p><i>If the permittee has an applicable WLA where a reduction in pollutant loading is required for chloride, each calendar year the permittee must conduct an assessment of the permittee's winter maintenance operations to reduce the amount of deicing salt applied to permittee owned/operated surfaces and determine current and future opportunities to improve BMPs. The permittee may use the Agency's Smart Salting Assessment Tool or other available resources and methods to complete this assessment. The permittee must document the assessment. The assessment may include, but is not limited to: a. operational changes such as pre-wetting, pre-treating the salt stockpile, increasing plowing prior to deicing, monitoring of road surface temperature, etc.; b. implementation of new or modified equipment providing pre-wetting, or other capability for minimizing salt use; c. regular calibration of equipment; d. optimizing mechanical removal to reduce use of deicers; or e. designation of no salt and/or low salt zones. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County employees responsible for salt application regularly attend Smart Salt training • The Ramsey County Public Works Maintenance Division uses the Smart Salting Assessment tool to evaluate our winter maintenance operations. <p><u>Performance Criteria</u></p> <ul style="list-style-type: none"> • Annual salt application on county roads is reported in MCM 6, <i>Item 21.15</i> • Ramsey County Environmental Services Division monitors select area lakes for chloride concentration through the year. We will include lake chloride levels in our MS4 SWPPP Annual Report <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works Highway Maintenance Supervisor – Ramsey County Public Works Highway Maintenance General Supervisor – Ramsey County Public Works Deputy Director of Highway Maintenance – Ramsey County Public Works</p>
<p>22.7</p>	<p><i>If the permittee has an applicable WLA where a reduction in pollutant loading is required for temperature (i.e., City of Duluth, City of Hermantown, City of Rice Lake, City of Stillwater, MnDOT Outstate, St. Louis County, University of Minnesota - Duluth, and Lake Superior College), the permittee must maintain a written plan that identifies specific activities the permittee will implement to reduce thermal loading during the permit term. The written plan may include, but is not limited to:</i></p> <p><i>a. implementation of infiltration BMPs such as bio infiltration practices;</i> <i>b. disconnection and/or reduction of impervious surfaces;</i> <i>c. retrofitting existing structural stormwater BMPs; or</i> <i>improvement of riparian vegetation. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County does not have TMDL temperature impairments and has not been assigned a temperature WLA. We are exempt for this section of the permit.

23.1	Alum or Ferric Chloride Phosphorus Treatment Systems. [Minn. R. 7090]
23.2	<p><i>If the permittee uses an alum or ferric chloride phosphorus treatment system, the permittee must comply with Section 23 requirements.</i> [Minn. R. 7090]</p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County does not currently own or operate an alum or ferric chloride phosphorus treatment system. We are exempt for this section of the permit.
24.1	Stormwater Pollution Prevention Program (SWPPP) Modification. [Minn. R. 7090]
24.2 – 24.4	<p><i>24.2 The Commissioner may require the permittee to modify the SWPPP as needed, in accordance with the procedures of Minn. R. 7001, and may consider the following factors:</i></p> <ol style="list-style-type: none"> <i>discharges from the MS4 are impacting the quality of receiving waters;</i> <i>more stringent requirements are necessary to comply with state or federal regulations; and</i> <i>additional conditions are deemed necessary to comply with the goals and applicable requirements of the Clean Water Act and protect water quality.</i> [Minn. R. 7090] <p><i>24.3 Modifications that the permittee chooses to make to the SWPPP other than modifications authorized in item 24.4, must be approved by the Commissioner in accordance with the procedures of Minn. R. 7001. All requests must be in writing, setting forth schedules for compliance. The request must discuss alternative program modifications, assure compliance with requirements of the permit, and meet other applicable laws.</i> [Minn. R. 7090]</p> <p><i>24.4 The permittee may modify the SWPPP without prior approval of the Commissioner provided the Commissioner is notified of the modification in the annual report for the year the modification is made and the modification falls under one of the following categories:</i></p> <p><i>a. a BMP is added, and none subtracted, from the SWPPP; or b. a less effective BMP is replaced with a more effective BMP. The alternate BMP must address the same, or similar, concerns as the ineffective or failed BMP.</i> [Minn. R. 7090]</p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County will summarize any changes made to our MS4 SWPPP in our Annual Report submitted to the MPCA and in this section of our SWPPP Annual Report <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
25.1	Annual Assessment, Annual Reporting, and Recordkeeping. [Minn. R. 7090]
25.2	<p><i>The permittee must conduct an annual assessment to evaluate compliance with the terms and conditions of the General Permit, including the effectiveness of the components of the SWPPP and the status of achieving the measurable requirements in the General Permit. Measurable requirements are activities that must be documented or tracked (e.g., education and outreach efforts, implementation of written plans, inventories, trainings, site plan reviews, inspections, enforcement, etc.). The permittee must perform the annual assessment prior to completion of each annual report and document any modifications made to the SWPPP as a result of the annual assessment.</i> [Minn. R. 7090]</p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> Ramsey County compiles the performance criteria listed in this SWPPP document while preparing for our annual report to the MPCA. We will prepare an MS4 SWPPP Annual Report that reviews and assesses these criteria. Each year’s report will be posted on our website after the submittal of our annual report to the MPCA. <p><u>Responsible Staff</u></p>

	<p>Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>25.3</p>	<p><i>The permittee must submit an annual report : Due annually, by the 30th of June. The annual report must cover the portion of the previous calendar year during which the permittee was authorized to discharge stormwater under the General Permit. The annual report shall be submitted to the Agency, in a manner determined by the Agency, that includes but is not limited to:</i></p> <ul style="list-style-type: none"> a. <i>the status of compliance with permit terms and conditions, including an assessment of the appropriateness of BMPs identified by the permittee and progress towards achieving the measurable requirements of each of the MCMs. The assessment must be based on results of information collected and analyzed, including monitoring (if any), inspection findings, and public input received during the reporting period;</i> b. <i>the stormwater activities the permittee plans to undertake during the next reporting cycle;</i> c. <i>a change in any identified BMPs for any of the MCMs;</i> d. <i>the summary required in item 22.2 to demonstrate progress toward achieving applicable WLAs;</i> e. <i>information required to be recorded or documented in Sections 13 through 24; and</i> f. <i>a statement that the permittee is relying on a partnership(s) with another regulated small MS4(s) to satisfy one or more permit requirements (if applicable), and what agreements the permittee has entered into in support of this effort. [Minn. R. 7090]</i> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County prepares and submits our annual MS4 report to the MPCA annually. A copy of the report is posted on our stormwater management website (https://www.ramseycounty.us/residents/environment/stormwater-management) following submittal. <p><u>Responsible staff</u></p> <p>Director/County Engineer – Ramsey County Public Works Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>

<p>25.4 - 25.5</p>	<p>24.4 - <i>The permittee must make records, including components of the SWPPP, available to the public at reasonable times during regular business hours (see 40 CFR 122.7 for confidentiality provision). [Minn. R. 7090]</i></p> <p>25.5 - <i>The permittee must retain copies of the permit application, all documentation necessary to comply with SWPPP requirements, all data and information used by the permittee to complete the application process, and any information developed as a requirement of the General Permit or as requested by the Commissioner, for a period of at least three (3) years beyond the date of permit expiration. This period is automatically extended during the course of an unresolved enforcement action regarding the small MS4 or as requested by the Commissioner. [Minn. R. 7001.0080, Minn. R. 7090]</i></p> <p>25.6 - <i>The permittee must, when requested by the Commissioner, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by the General Permit or regarding the conduct of the activity covered by the General Permit. [Minn. R. 7001.0150, Subp. 3(H), Minn. R. 7090]</i></p> <p>25.7 - <i>The permittee must use an electronic submittal process, as provided by the Agency, to submit information required by the General Permit. If electronic submittal is not available, the permittee must use the following mailing address:</i></p> <p><i>Supervisor, Municipal Stormwater Unit Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, Minnesota 55155-4194. [Minn. R. 7090]</i></p> <p><u>BMP Description</u></p> <ul style="list-style-type: none"> • Ramsey County keeps all data used for the MS4 application process electronically in our system. • Relevant data is available per the Data Practices guidelines of the Minnesota Department of Administration. <p><u>Responsible Staff</u> Environmental Services Supervisor – Ramsey County Public Works Environmental Resource Specialist– Ramsey County Public Works</p>
<p>27.1</p>	<p>Definitions. [Minn. R. 7090]</p>
<p>27.2</p>	<p>"Active karst" means a terrain having distinctive landforms and hydrology created primarily from the dissolution of soluble rocks within 50 feet of the land surface. [Minn. R. 7090]</p>
<p>27.3</p>	<p>"Agency" means the Minnesota Pollution Control Agency or MPCA. [Minn. Stat. 116.36, subd. 2]</p>
<p>27.4</p>	<p>"Alum or Ferric Chloride Phosphorus Treatment System" means the diversion of flowing stormwater from a MS4, removal of phosphorus through the use a continuous feed of alum or ferric chloride additive, flocculation, and the return of the treated stormwater back into a MS4 or receiving water. [Minn. R. 7090]</p>
<p>27.5</p>	<p>"Applicable WLA" means a Waste Load Allocation assigned to the permittee and approved by the USEPA prior to the issuance date of the General Permit. [Minn. R. 7090]</p>
<p>27.6</p>	<p>"Best Management Practices" or "BMPs" means practices to prevent or reduce the pollution of the waters of the state, including schedules of activities, prohibitions of practices, and other management practices, and also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge, or waste disposal or drainage from raw material storage. [Minn. R. 7001.1020, Subp. 5]</p>
<p>27.7</p>	<p>"Commissioner" means the Commissioner of the Minnesota Pollution Control Agency or the Commissioner's designee. [Minn. Stat. 116.36, subd. 3]</p>
<p>27.8</p>	<p>"Common Plan of Development or Sale" means a contiguous area where multiple separate and distinct land disturbing activities may be taking place at different times, on different schedules, but under one proposed plan. One plan is broadly defined to include design, permit application, advertisement or physical demarcation indicating that land-disturbing activities may occur. [Minn. R. 7090]</p>

27.9	"Construction Activity" means activities including clearing, grading, and excavating, that result in land disturbance of equal to or greater than one acre, including the disturbance of less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one acre. This includes a disturbance to the land that results in a change in the topography, existing soil cover, both vegetative and nonvegetative, or the existing soil topography that may result in accelerated stormwater runoff that may lead to soil erosion and movement of sediment. Construction activity does not include a disturbance to the land of less than five acres for the purpose of routine maintenance performed to maintain the original line and grade, hydraulic capacity, and original purpose of the facility. Routine maintenance does not include activities such as repairs, replacement and other types of non-routine maintenance. Pavement rehabilitation that does not disturb the underlying soils (e.g., mill and overlay projects) is not construction activity. [Minn. R. 7090]
27.10	"DNR Catchment Area" means the Hydrologic Unit 08 areas delineated and digitized by the Minnesota DNR. The catchment areas are available for download at the Minnesota DNR Geospatial Commons website. DNR catchment areas may be locally corrected, in which case the local corrections may be used. [Minn. R. 7090]
27.11	"Existing Permittee" means an owner/operator of a small MS4 that has been authorized to discharge stormwater under a previously issued general permit for small MS4s in the state of Minnesota. [Minn. R. 7090]
27.12	"Fully reconstructed" means areas where impervious surfaces have been removed down to the underlying soils. Activities such as structure renovation, mill and overlay projects, and other pavement rehabilitation projects that do not expose the underlying soils beneath the structure, pavement, or activity are not considered fully reconstructed. Maintenance activities such as catch basin repair/replacement, utility repair/replacement, pipe repair/replacement, lighting, and pedestrian ramp improvements are not considered fully reconstructed. [Minn. R. 7090]
27.13	"General permit" means a permit issued under Minn. R. 7001.0210 to a category of permittees whose operations, emissions, activities, discharges, or facilities are the same or substantially similar. [Minn. R. 7001.0010, Subp. 4]
27.14	"Geographic Coordinates" means the point location of a stormwater feature expressed by X, Y coordinates of a standard Cartesian coordinate system (i.e. latitude/longitude) that can be readily converted to Universal Transverse Mercator (UTM), Zone 15N in the NAD83 datum. For polygon features, the geographic coordinates will typically define the approximate center of a stormwater feature. [Minn. R. 7090]
27.15	"High Flow Bypass" means a function of an inlet device that allows a certain flow of water through, but diverts any higher flows away. High flow bypasses are generally used for BMPs that can only treat a designed amount of flow and that would be negatively affected by higher flows. [Minn. R. 7090]
27.16	"Illicit Discharge" means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to a NPDES permit (other than the NPDES permit for discharges from the municipal separate storm sewer) and discharges resulting from firefighting activities. [40 CFR 122.26(b)(2)]
27.17	"Impaired Water" means waters identified as impaired by the Agency, and approved by the USEPA, pursuant to section 303(d) of the Clean Water Act (33 U.S.C. 303(d)). [Minn. R. 7090]
27.18	"Linear project" means construction of new or fully reconstructed roads, trails, sidewalks, or rail lines that are not part of a common plan of development or sale. For example, roads being constructed concurrently with a new residential development are not considered linear projects because they are part of a common plan of development or sale. [Minn. R. 7090]

27.19	<p>"Maximum Extent Practicable" or "MEP" means the statutory standard (33 U.S.C. 1342(p)(3)(B)(iii)) that establishes the level of pollutant reductions that an owner or operator of regulated MS4s must achieve. The USEPA has intentionally not provided a precise definition of MEP to allow maximum flexibility in MS4 permitting. The pollutant reductions that represent MEP may be different for each small MS4, given the unique local hydrologic and geologic concerns that may exist and the differing possible pollutant control strategies. Therefore, each permittee will determine appropriate BMPs to satisfy each of the six Minimum Control Measures (MCMs) through an evaluative process. The USEPA envisions application of the MEP standard as an iterative process. [Minn. R. 7090]</p>
27.20	<p>"Municipal separate storm sewer system" or "MS4" means a conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains:</p> <ul style="list-style-type: none"> a. owned or operated by a state, city, town, county, district, association, or other public body, created by or pursuant to state law, having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district, or drainage district or similar entity, or an Indian tribe or an authorized Indian tribe organization, or a designated and approved management Agency under section 208 of the federal Clean Water Act, United States Code, title 33, section 1288, that discharges into waters of the state; b. designed or used for collecting or conveying stormwater; c. that is not a combined sewer; and d. that is not part of a publicly owned treatment works as defined in 40 CFR 122.2. <p>Municipal separate storm sewer systems do not include separate storm sewers in very discrete areas, such as individual buildings. [Minn. R. 7090.0080, Subp. 8]</p>
27.21	<p>"New Permittee" means an owner/operator of a small MS4 that has not been authorized to discharge stormwater under a previously issued General Stormwater Permit for small MS4s in the state of Minnesota and that applies for, and obtains coverage under the General Permit. [Minn. R. 7090]</p>
27.22	<p>"Non-Stormwater Discharge" means any discharge not composed entirely of stormwater. [Minn. R. 7090]</p>
27.23	<p>"Operator" means the person with primary operational control and legal responsibility for the MS4. [Minn. R. 7090.0080, Subp. 10]</p>
27.24	<p>"Outfall" means the point source where a MS4 discharges to a receiving water, or the stormwater discharge permanently leaves the permittee's MS4. It does not include diffuse runoff or conveyances that connect segments of the same stream or water systems (e.g., when a conveyance temporarily leaves an MS4 at a road crossing). [Minn. R. 7090]</p>
27.25	<p>"Owner" means the person that owns the MS4. [Minn. R. 7090.0080, Subp. 11]</p>
27.26	<p>"Permittee" means a person or persons, that signs the permit application submitted to the Agency and is responsible for compliance with the terms and conditions of the General Permit. [Minn. R. 7090]</p>
27.27	<p>"Person" means the state or any Agency or institution thereof, any municipality, governmental subdivision, public or private corporation, individual, partnership, or other entity, including, but not limited to, association, commission or any interstate body, and includes any officer or governing or managing body of any municipality, governmental subdivision, or public or private corporation, or other entity. [Minn. Stat. 115.01, subd. 10]</p>
27.28	<p>"Pipe" means a closed manmade conveyance device used to transport stormwater from location to location. The definition of pipe does not include foundation drain pipes, irrigation pipes, land drain tile pipes, culverts, and road sub-grade drain pipes. [Minn. R. 7090]</p>
27.29	<p>"Receiving Water" means any lake, river, stream or wetland that receives stormwater discharges from an MS4. [Minn. R. 7090]</p>
27.30	<p>"Reduce" means reduce to the Maximum Extent Practicable (MEP) unless otherwise defined in the context in which it is used. [Minn. R. 7090]</p>

27.31	"Seasonally Saturated Soil" means the highest seasonal elevation in the soil in a reduced chemical state because of soil voids filled with water causing anaerobic conditions. Seasonally saturated soil is evidenced by the presence of redoximorphic features or other information determined by scientifically established methods or empirical field measurements. [Minn. R. 7090]
27.32	"Section" includes all item numbers of the same whole number. For example, "Section 5" of the General Permit refers to items 5.1 through 5.5. [Minn. R. 7090]
27.33	"Significant Materials" includes, but is not limited to: raw materials, fuels, materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); any chemical the facility is required to report pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA); fertilizers, pesticides, and waste products such as ashes, slag, and sludge that have the potential to be released with stormwater discharges. When determining whether a material is significant, the physical and chemical characteristics of the material should be considered (e.g. the material's solubility, transportability, and toxicity characteristics) to determine the material's pollution potential. [40 CFR 122.26(b)(12)]
27.34	<p>"Small Municipal Separate Storm Sewer System" or "small MS4", means all separate storm sewers that are:</p> <ol style="list-style-type: none"> a. Owned or operated by the United States, a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management Agency under section 208 of the CWA that discharges to waters of the United States. b. Not defined as "large" or "medium" Municipal Separate Storm Sewer Systems pursuant to 40 CFR 122.26 paragraphs (b)(4) and (b)(7) or designated under paragraph (a)(1)(v). c. This term includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. [Minn. R. 7090]
27.35	"Stormwater" means stormwater runoff, snow melt runoff, and surface runoff and drainage. [Minn. R. 7090.0080, Subp. 12]
27.36	"Stormwater flow direction" means the direction of predominant flow within a pipe. Flow direction can be discerned if pipe elevations can be displayed on the storm sewer system map. [Minn. R. 7090]
27.37	"Stormwater Pollution Prevention Program" or "SWPPP" means a comprehensive program developed by the permittee to manage and reduce the discharge of pollutants in stormwater to and from the small MS4. [Minn. R. 7090]
27.38	"Structural Stormwater BMP" means a stationary and permanent BMP that is designed, constructed, and operated to prevent or reduce the discharge of pollutants in stormwater. [Minn. R. 7090]
27.39	"Total Maximum Daily Load" or "TMDL" means the sum of the individual Waste Load Allocations for point sources and load allocations for nonpoint sources and natural background, as more fully defined in 40 CFR 130.2, paragraph (i). A TMDL sets and allocates the maximum amount of a pollutant that may be introduced into a water of the state and still assure attainment and maintenance of water quality standards. [Minn. R. 7052.0010, Subp. 42]
27.40	"Waste Load Allocation" or "WLA" means the portion of a receiving water's loading capacity that is allocated to one of its existing or future point sources of pollution, as more fully defined in Code of Federal Regulations, title 40, section 130.2, paragraph (h). In the absence of a TMDL approved by USEPA under 40 CFR 130.7, or an assessment and remediation plan developed and approved according to Minn. R. 7052.0200, Subp. 1.C, a WLA is the allocation for an individual point source that ensures that the level of water quality to be achieved by the point source is derived from and complies with all applicable water quality standards and criteria. [Minn. R. 7052.0010, Subp. 45]
27.41	"Water pollution" means (a) the discharge of any pollutant into any waters of the state or the contamination of any waters of the state so as to create a nuisance or render such waters unclean, or noxious, or impure so as to be actually or

	potentially harmful or detrimental or injurious to public health, safety or welfare, to domestic, agricultural, commercial, industrial, recreational or other legitimate uses, or to livestock, animals, birds, fish or other aquatic life; or (b) the alteration made or induced by human activity of the chemical, physical, biological, or radiological integrity of waters of the state. [Minn. Stat. 115.01, subd. 13]
27.42	"Water Quality Standards" means those provisions contained in Minn. R. 7050 and 7052. [Minn. R. 7090]
27.43	"Water Quality Volume" means either: a. for construction activity (excluding linear projects), one (1) inch of runoff from the sum of the new and fully reconstructed impervious surfaces created by the project (calculated as an instantaneous volume); or b. for linear projects, the greater of one (1) inch of runoff from the new impervious surface or one-half (0.5) inch of runoff from the sum of the new and fully reconstructed impervious surfaces created by the project (calculated as an instantaneous volume). [Minn. R. 7090]
27.44	"Waters of the State" means all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, reservoirs, aquifers, irrigation systems, drainage systems and all other bodies or accumulations of water, surface or underground, natural or artificial, public or private, which are contained within, flow through, or border upon the state or any portion thereof. [Minn. Stat. 115.01, subd. 22]
27.45	"Wetlands" means those areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Constructed wetlands designed for wastewater treatment are not waters of the state. Wetlands must have the following attributes: a. a predominance of hydric soils; b. inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support a prevalence of hydrophytic vegetation typically adapted for life in a saturated soil condition; and c. under normal circumstances support a prevalence of such vegetation. [Minn. R. 7050.0186, Subp. 1a.B]