



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part II.D.1.](#)

BMP Title:

BMP Description:

Provide mutually beneficial partnerships to address MS4 permit requirements of providing educational opportunities, illicit discharge detection and elimination, and maintenance of the city conveyance systems. Agreements will be pursued between the City of St. Anthony and the Rice Creek Watershed District.

Measurable Goals:

Determine if this partnership beneficial in the educational, training, and/or enforcement aspects of the MS4 program.

Responsible Person:

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[illegible]



BMP PAGE

Unique Identifying Number: 0-B

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.B.1.](#)

[Part III.B.2.](#)

BMP Title: Review/Update to Enforcement Response Procedures

BMP Description:

Revise enforcement process to ensure adequacy in issuing SWPPP compliance citations

Measurable Goals:

Determine if the enforcement response procedures are in compliance with the MS4 permit.

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BMP PAGE

Unique Identifying Number: 1-A

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

BMP Title: Education Activity Implementation Plan

BMP Description:

Complete outline of education activity implementation program and implementation schedule for the upcoming permit year. This will include a process for prioritizing education into three areas at a minimum and may be based on: TMDLs and industrial land uses. This will be completed annually by June 30th. Information on the City's Storm Water Pollution Prevention Plan will include information on the annual public meeting, illicit discharges, erosion control, shoreline management, composting, pollution prevention, and other applicable best management practices. It will be distributed using the following techniques: **Newsletter**-published stormwater pollution prevention related articles to spread awareness of stormwater related issues, **Website**-devoted to water resource related issues, **Social Media**-campaign created on Facebook or Twitter posting a stormwater related article at least once a quarter with additional postings upon important events, **Brochures**-encourage best management practices, increase awareness of non-point source pollution, and provide local contact information for residents to request further information on specific stormwater topics and available at the City Hall and on the City website. Public Participation is encouraged.

Measurable Goals:

Distribute a minimum of 3 educational publications via City mailings, workshops, presentations, website postings, or newsletters per year. Begin working collaboratively with the MWMO, RCWD, and RCD in distributing educational materials and promoting/supporting outreach programs. Public presentations, outreach programs, and the City's website available for public participation. Also, provide a minimum of one illicit discharge related publication to residents per year; provide illicit discharge education to City staff.

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BMP PAGE

Unique Identifying Number: 1-B

Implementation Table

Permit Requirements Addressed by this BMP:

[Part II.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

BMP Title: Coordination of Education Program

BMP Description:

The City will continue to coordinate educational programs with City departments, adjacent metro cities, local organizations, state agencies, and other outside organizations to develop, present, and distribute the most up-to-date stormwater pollution prevention information available.

Measurable Goals:

Implement educational activities and coordinate with the RCWD and MWMO. Record attendances, web site visits, keep minutes, record statements/requests, and written comments. The effectiveness will be evaluated a minimum of once annually. Success will be in achieving and/or identifying modifications to the educational program.

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BMP PAGE

Unique Identifying Number: 1-C

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.1.](#) [Part III.D.1.](#) [Part III.D.1.](#) [Part III.D.1.](#)

BMP Title: Program Evaluation

BMP Description:

During yearly SWPPP review, consider which materials are most effective for our program and audiences.

Measurable Goals:

Use the information collected throughout the year to determine printing numbers for future education materials. Consider information from citizen feedback related to all aspects of our SWPPP to determine education needs on a yearly basis.

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BMP PAGE

Unique Identifying Number: 1-C

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

BMP Title: Education Program: Construction Site Run-off Control

BMP Description:

Meet with contractors, City staff, and residents prior to the start of construction to discuss implementing project specific BMPs.

Measurable Goals:

Provide erosion control education to contractors and property owners to increase awareness of construction site runoff and review of project specific erosion control BMPs and City ordinances. For City staff, introduce new ideas relating to construction site pollution prevention, develop an understanding of the SWPPP, and increase the knowledge of specific NPDES construction permit requirements. Continue with the plan review process/pre-construction meetings. Completed annually.

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BMP PAGE

Unique Identifying Number: 1-C

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.1.](#) [Part III.D.1.](#) [Part III.D.1.](#) [Part III.D.1.](#)

BMP Title: Post-Construction Stormwater Management in New Development and Redevelopment

BMP Description:

The City educates their residents and business owners on stormwater management within their neighborhood and increases their understanding of maintenance procedures for existing stormwater management systems within the City.

Measurable Goals:

Distribute a minimum of one post-construction stormwater management related publication to residents per year. Completed annually.

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BMP PAGE

Unique Identifying Number: 1-C

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.1.](#) [Part III.D.1.](#) [Part III.D.1.](#) [Part III.D.1.](#)

BMP Title: Pollution Prevention/Good Housekeeping for Municipal Operations

BMP Description:

The City introduces BMPs and helps City Staff develop an understanding of the SWPPP.

Measurable Goals:

Provide a minimum of one pollution prevention related training opportunity to City staff per year.
Document the number of participants at each training session. Completed annually.

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BMP PAGE

Unique Identifying Number: 1-C

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

[Part III.D.1.](#)

BMP Title: Annual Public Meeting

BMP Description:

The City hosts an annual public meeting to distribute educational materials and present an overview of the MS4 program and the City's SWPPP. Oral and written statements are received and considered for inclusion into the SWPPP by City staff.

Measurable Goals:

The number of attendees at the public meetings will be recorded along with all of the comments received, and responses to each comment in the record of decision. The effectiveness of this BMP will be measured by the number of residents who attend the annual public meeting. The success of this BMP is defined by the public's increased awareness about stormwater pollution and the MS4 program. This goal will be met by hosting one annual public meeting per calendar year.

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BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.2.](#) [Part III.D.2.](#) [Part III.D.2.](#) [Part III.D.2.](#) [Part III.D.2.](#)

BMP Title:

BMP Description:

The City submits a public meeting notice to the local newspaper for print a minimum of 30 days prior to the annual public meeting date. The public notice includes the dates, times, and locations of the meeting, contact person name and phone number, and a brief narrative highlighting the SWPPP. The City may also post additional public notices on the City's website and at government offices within the City.

Measurable Goals:

Notice the annual public meeting in the official newspaper 30 days prior to the meeting date. Minimum of once per year.

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BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.2.](#)

[Part III.D.2.](#)

[Part III.D.a.](#)

[Part III.D.2.](#)

[Part III.D.2.](#)

BMP Title:

BMP Description:

The City will conduct a public meeting and post the City's Stormwater Pollution Prevention Program on their website; solicit public opinion on the plan, and consider written and oral input into the SWPPP.

Measurable Goals:

Hold an annual public meeting and host a web page to solicit public opinion on the SWPPP. Record attendance, keep minutes, record statements, and written comments, and document changes made to the SWPPP and submit in conjunction with the annual report to the MPCA. Minimum of once per year.

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BMP PAGE

Unique Identifying Number: 3-A

Implementation Table

Permit Requirements Addressed by this BMP:

[Part II.D.4.](#)

[Part III.C.1.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

BMP Title: Storm Sewer System Mapping

BMP Description:

The City currently has a map identifying all ponds, lakes, streams, storm sewer pipes and conveyances (equal to or greater than 24") as well as outfalls and discharge points leaving the City. As part of the SWPPP, the City will annually update this map to include changes to the storm sewer system throughout the City, including but not limited to, new development, street improvements, water quality projects, wetland mitigation projects, and any changes to the storage or conveyance of stormwater within the City.

Measurable Goals:

The goal of this BMP will be met by annually updating changes to the City's storm sewer system map.

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BMP PAGE

Unique Identifying Number: 3-B

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.3.](#) [Part III.D.3.](#) [Part III.D.3.](#)

BMP Title: Regulatory Control Program

BMP Description:

The City established an Illicit Discharge and Connection Ordinance in 2009. This ordinance will be evaluated annually and updated as necessary.

Measurable Goals:

The effectiveness of this BMP will be measured by the number of enforcement actions issued annually. Success will be defined as the reviewing all applicable illicit discharge ordinances.

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BMP PAGE

Unique Identifying Number: 3-C

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

BMP Title: Illicit Discharge Detection and Elimination (IDDE) Plan

BMP Description:

The City developed and implemented a program to detect and reduce non-stormwater discharges, including illegal dumping. Procedures for detection may consist of visual inspections for non-stormwater discharges on City owned land and private property. Inspection frequency may be conducted concurrent with the outfall inspections and implementation schedule of the public works activities. The City will notify the MPCA state duty officer of any hazardous material spills or discharges (within 24 hours of receipt, if applicable, per NPDES Phase II requirements).

Measurable Goals:

Develop and implement an illicit discharge detection plan, consisting of staff training and procedures for inspections and corrective actions.

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BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

BMP Title:

BMP Description:

The City or its designee will discourage illegal dumping by educating the public (City residents, businesses, and staff) on its potential sources and effects as well as alternative uses for unwanted materials. This BMP includes providing information on recycling options, services, and programs within the City, such as drop-off sites for household hazardous waste. The City will also review the current educational activities undertaken by its staff to prevent illicit discharges from daily public works activities and other general City operations. These activities may include, but are not limited to, educational brochures, newsletters, training, videos, and workshops.

Measurable Goals:

The City or its designee will discourage illicit non-stormwater discharges by educating the public and City staff. This goal will be met by distributing illicit discharge, household hazardous waste, and recycling program literature to residents and providing educational activities to City staff a minimum of one time annually.

Responsible Person:

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BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.3.](#) [Part III.D.3.](#) [Part III.D.3.](#) [Part III.D.3.](#)

BMP Title:

BMP Description:

The City has identified and evaluated the following categories of non-stormwater discharges (as defined in Part V.G.3.e): Water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitats and wetland, de-chlorinated swimming pool discharges, and street wash water, discharges or flows from fire fighting activities.

Measurable Goals:

The City has identified and evaluated all non-storm water discharges (as defined in Part I.A.2) to be insignificant pollutant contributors. As necessary, the City will evaluate these non-stormwater discharges to determine if this list needs to be updated.

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BMP PAGE

Unique Identifying Number: 3-F

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.3.](#) [Part III.D.3.](#) [Part III.D.3.](#) [Part III.D.3.](#)

BMP Title: Illicit Discharge Investigation

BMP Description:

As needed televise a section of our sewer system, collect grab samples, or perform other effective testing procedures to find illicit connection in the system.

Measurable Goals:

All non-stormwater discharges (as defined in Part III.D.3.f.) were evaluated and determined to be insignificant sources of pollutants to the MS4.

Responsible Person:

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BMP PAGE

Unique Identifying Number: 3-G

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.A.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

[Part III.D.3.](#)

BMP Title: IDDE Program Updates

BMP Description:

Update written procedures for illicit discharge inspections, investigations, and response actions.

Measurable Goals:

Develop a process to document information as described in the Permit (Part III.3.h) within 12 months following the date permit coverage is extended.

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[illegible]



BMP PAGE

Unique Identifying Number: 4-A

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.4.](#) [Part III.D.4.](#) [Part III.D.4.](#)

BMP Title: Ordinance or other Regulatory Mechanism

BMP Description:

The City currently implements sections 1650 and 1675 which addresses the issue of construction site erosion and sediment control. Elements of these ordinances include, plan review requirements, approval standards, dewatering standards, waste and material disposal requirements, off-site sediment tracking, inlet protection, inspection and BMP maintenance standards, and other BMP requirements. The City will also review the current local permit stipulations/city codes relating to project specific site erosion and sediment control as part of the conditions of this MS4 permit. Staff will review current ordinances and update if found non-conforming to the new NPDES construction permit requirements.

Measurable Goals:

The City will review existing ordinances and, if necessary, revise all applicable construction site erosion and sediment control ordinances. The effectiveness of this BMP will be measured by the number of enforcement actions issued annually. Success will be defined as the reviewing of all applicable construction site erosion and sediment control ordinances.

The City will evaluate the pre-existing City Code, Chapter 153 Stormwater Management and update as necessary to conform to the MPCA CSW Permit that was approved in 2013.

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BMP PAGE

Unique Identifying Number: 4-B

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.4.](#) [Part III.D.4.](#) [Part III.D.4.](#)

BMP Title: Construction Site Implementation of Erosion and Sediment Control BMPs

BMP Description:

Construction site operators must conform to NPDES Phase II permit requirements (proof of coverage on sites 1 acre or larger), Rice Creek Watershed District permits (if applicable), and local city ordinances for site erosion and sediment control. As part of the City's permit approval standards, erosion, and sediment control BMPs must be implemented in accordance with the NPDES permit requirements, city standard plates and specifications for construction, local permit stipulations, and applicable city codes.

Measurable Goals:

Construction site operators must conform to NPDES Phase II, watershed district, and City ordinances pertaining to erosion, sediment, and waste controls. The City will review existing ordinances and, if necessary, revise all applicable construction site erosion and sediment control ordinances and standard plates and specifications for construction site erosion and sediment control BMPs. Success will be defined as the reviewing of all applicable ordinances, standard plates, and specifications related to construction site erosion and sediment control best management practices. Completed annually.

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BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.4.](#) [Part III.D.4.](#) [Part III.D.4.](#)

BMP Title:

BMP Description:

Every applicant for a city permit to allow land disturbing activities must submit a project specific stormwater management plan (if applicable) and/or erosion control plan to the City for review and approval. All local permits are also required to meet MPCA NPDES Phase II guidelines for erosion and sediment control and all applicable City ordinances and codes.

Measurable Goals:

The City requires every applicant for a building permit, subdivision approval, or grading permit that disturbs one acre or more to submit a project specific stormwater management plan and/or erosion control plan (if applicable). This goal will be met by only issuing City permits to applicants that have submitted project specific stormwater management plans and/or erosion and sediment control plans for review and approval (if applicable).

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BMP PAGE

Unique Identifying Number: 4-D

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.4.](#) [Part III.D.4.](#) [Part III.D.4.](#) [Part III.D.4.](#)

BMP Title: Prioritize Inspections

BMP Description:

The City will develop a process to determine the frequency for inspecting high priority inspection sites (e.g. near sensitive receiving waters, projects larger than 5 acres).

Measurable Goals:

The City will begin to annually evaluate the effectiveness of site inspections and enforcement procedures via enforcement actions taken annually. Additional and/or revised procedures will be added (if applicable) when deemed necessary or found non-conforming to NPDES Phase II requirements.

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BMP PAGE

Unique Identifying Number: 4-B

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.4.](#)

[Part III.D.4.](#)

[Part III.D.4.](#)

BMP Title: Documentation Procedures

BMP Description:

Written procedures to track and archive all plan review and inspection documents.

Measurable Goals:

Annual review of written procedures and archiving of plan review and inspectins documents.

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BMP PAGE

Unique Identifying Number: 4-E

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.4.](#) [Part III.D.4.](#) [Part III.D.4.](#)

BMP Title: Procedures for Receiving and Consideration Reports of Non-compliance

BMP Description:

The City provides a phone number and a website link for the public to report potential construction site erosion control and waste disposal infractions. Reported incidents will be inspected within 24 hours of receipt by the City or on the next scheduled City work day. Hazardous material spills or discharges will be reported to the MPCA State Duty Officer within 24 hours of receipt by the City or identified by the construction site operator. Remedial actions against the violator will be taken at the discretion of the City Administrator and City Council.

Measurable Goals:

Provide a phone number, website, and point of contact for the public to report stormwater pollution issues. The City will record the number of calls and emails related to SWPPP issues, number and type of illicit discharges and construction site complaints, and the number of clean-up activities or SWPPP changes resulting from calls or emails.

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BMP PAGE

Unique Identifying Number: 4-E

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.4.](#) [Part III.D.4.](#) [Part III.D.4.](#)

BMP Title: Establishment of Procedures for Site Inspections and Enforcement

BMP Description:

The City provides training to its staff on proper erosion control, identification of problem areas, and the requirements of the Stormwater Pollution Prevention Plan (SWPPP) for construction site operations. City procedures for site inspections and enforcement actions comply with NPDES Phase II construction permit guidelines and all applicable City codes.

Measurable Goals:

The City will inspect construction sites for conformance to NPDES construction permit standards and applicable City standards. This goal will be met by enforcing the City's erosion & sediment control and waste & material disposal standards. Add additional procedures or requirements as necessary.

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BMP PAGE

Unique Identifying Number: 5-A

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.5.](#) [Part III.D.5.](#) [Part III.D.5.](#) [Part III.D.5.](#) [Part III.D.5.](#)

BMP Title: Development and Implementation of Structural and/or Non-Structural BMPs

BMP Description:

Structural: The City will review and revise (if necessary, during the plan review process) permanent BMP designs and criteria for post-construction stormwater management associated with new development and redevelopment projects of one acre or more. The City will annually review and revise (if necessary) the current policies, requirements, and Best Management Practices specific to structural BMPs.

Non-Structural: The City may also improve the condition of parks, wetlands, and watersheds when the opportunity arises. Wetland restorations, native plantings, bank stabilization, detention ponds, and other best management construction projects will continue to be actively pursued by the City when the opportunity arises.

Measurable Goals:

The City will evaluate all structural and non-structural BMPs during the plan review process for the potential of new and/or revised BMPs. The City will also actively look for non-structural opportunities where prudent and feasible. The goal of this BMP will be met if the City conducts plan reviews on new development and redevelopment projects of one acre or more.

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BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

BMP Title:

BMP Description:

City staff will inspect post-construction BMPs then evaluate inspection records for determining the corrective maintenance actions (if necessary) for the long-term operation of all stormwater management facilities owned by the City. Corrective actions and routine maintenance of all stormwater management facilities will be guided by the Comprehensive Water Resource Management Plan and implemented by City staff.

Measurable Goals:

The City will continue to annually inspect a minimum of 20% of all its MS4 outfalls, sediment basins, and ponds, then evaluate and record the number of proposed maintenance projects and successful funding of each project (if applicable). Success of this BMP is defined as achieving the measurable goals of minimum control measure 6.

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BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

BMP Title:

BMP Description:

The City will implement the requirements of the Comprehensive Water Resource Management Plan (CWRMP), along with applicable City ordinances to minimize the negative impacts stormwater runoff may have on water quality within the City. Post-construction inspection and maintenance (as defined in the MCM #6) will be undertaken by the City, as well as enforcement of ordinances related to post-construction stormwater management.

Measurable Goals:

The City will implement the requirements of the Comprehensive Water Resource Management Plan and applicable City ordinances. The goal of this BMP will be met if the City completes the inspection and maintenance (if necessary) of its stormwater management facilities. Completed annually.

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BMP PAGE

Unique Identifying Number: 5-D

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.5.](#) [Part III.D.5.](#) [Part III.D.5.](#) [Part III.D.5.](#) [Part III.D.5.](#) [Part III.D.5.](#)

BMP Title: Develop Written Procedures for Site Plan Review

BMP Description:

Site plan review procedures

Measurable Goals:

Site plan review procedures shall be assessed during every plan review with updates needed as necessary.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
Phone:	(612) 782-3314
Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number: 5-E

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

[Part III.D.5.](#)

BMP Title: Document Pertinent Project Information

BMP Description:

Maintain all related documents pertaining to each new or redevelopment project in more user-friendly filing system for better records management.

Measurable Goals:

Implement the more user-friendly filing system within 12 months of extension of permit coverage.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
Phone:	(612) 782-3314
Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



Implementation Table

Name:	Jeremy Gumke
Title:	Public Works Superintendent
Phone:	(612) 782-3314
Email:	jeremy.gumke@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#)

BMP Title:

BMP Description:

The City will implement the Stormwater Management and Maintenance programs identified within the City's Comprehensive Water Resources Management Plan (CWRMP). The City will also provide training materials and workshops to City staff to help reduce stormwater pollution caused from park maintenance, fleet and building maintenance, new construction and land disturbances, outfall inspections, and storm sewer system maintenance.

Measurable Goals:

The goal of this BMP will be met if the City implements the stormwater management and maintenance programs of the Comprehensive Water Resources Management Plan and provide a minimum of one training opportunity per year for all applicable Public Works staff, and document the number of participants at each training session.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
Phone:	(612) 782-3314
Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

BMP Title:

BMP Description:

City staff will quarterly locate and inspect all exposed stockpiles and storage/material handling areas on City owned properties. All existing onsite BMPs will be inspected for conformance to NPDES Phase II permit requirements. Any identified erosion control issues will be corrected and documented per NPDES Phase II standards.

Measurable Goals:

The effectiveness of this BMP will be measured by the frequency of inspections and corrective actions. Record inspections, correct and document all remedial actions quarterly.

Responsible Person:

Name:	Jeremy Gumke
Title:	Public Works Superintendent
Phone:	(612) 782-3314
Email:	jeremy.gumke@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number: 6-D

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

BMP Title: Annual Inspection of all Structural Pollution Control Devices

BMP Description:

The City's Public Works Department will inspect all identified structural pollution control devices on City property and right-of-ways, and prescribe a maintenance schedule as necessary. Newly constructed and rebuild structural pollution control devices will be added to the storm sewer map and inspected within one year of post construction.

Measurable Goals:

The City will document inspections, repairs, and maintenance projects of its structural pollution control devices. The goal of this BMP will be met if the City conducts and documents inspections of structural pollution control devices a minimum of once per year.

Responsible Person:

Name:	Jeremy Gumke
Title:	Public Works Superintendent
Phone:	(612) 782-3314
Email:	jeremy.gumke@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#)

BMP Title:

BMP Description:

The City will inspect all mapped outfalls, sediment basins, and ponds with the City's storm sewer system. The results of these inspections will be compiled in a report which will include sediment levels, watershed information and recommended maintenance and maintenance schedules.

Measurable Goals:

The City will inspect all mapped outfalls, sediment basins, and ponds a minimum of 20% each year (on a rotating schedule during the permit coverage) and record the number and physical condition of each outfall or pond. Success of this BMP will be defined as recording a minimum annual inspection rate of 20% of all MS4 outfalls, sediment basins, and ponds.

Responsible Person:

Name:	Jeremy Gumke
Title:	Public Works Superintendent
Phone:	(612) 782-3314
Email:	jeremy.gumke@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

BMP Title:

BMP Description:

The City will retain the records of inspection results and any maintenance performed or recommended. After two years of inspections, the frequency of inspections may be adjusted at the discretion of the Public Works Director.

Measurable Goals:

The City will retain the records of inspection results and any maintenance performed or recommended. The goal of this BMP will be met if the City evaluates the inspection records after two years of conducting inspections.

Responsible Person:

Name:	Jeremy Gumke
Title:	Public Works Superintendent
Phone:	(612) 782-3314
Email:	jeremy.gumke@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Park III.D.6](#)

[Part III.D.6](#)

[Part III.D.6](#)

[Part III.D.6](#)

BMP Title:

BMP Description:

The City will determine whether repair, replacement, or maintenance measures are necessary from evaluating inspection reports and other pertinent information. All corrective maintenance, repair, and/or replacement measures shall be documented and recorded in the City's SWPPP.

Measurable Goals:

All corrective maintenance, repair, and/or replacement measures will be recorded. Evaluate inspection reports and other information a minimum of once per year.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
Phone:	(612) 782-3314
Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#)

BMP Title:

BMP Description:

The City will review the practices and policies of road salt applications such as alternative products, calibration of equipment, inspection of vehicles, and staff training.

Measurable Goals:

Continue to evaluate current practices of road salt applications, alternative products, calibration of equipment, inspection of vehicles, and staff training. Minimum of once per year, annually. The City will continue to record the annual activities of the salt distribution program. Success will be defined as adjusting current practices as necessary.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
Phone:	(612) 782-3314
Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number: 6-I

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#)

BMP Title: Record Reporting and Retention of All Inspections and Responses to the Inspections

BMP Description:

The Public Works Director will retain all records of inspection, maintenance, and corrective actions of the City's storm water system. Records will be available, by request, to the public upon approval by the Public Works Director.

Measurable Goals:

The City will retain all records of inspection, maintenance, and corrective actions for a minimum period of three years past the expiration of this permit.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
Phone:	(612) 782-3314
Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#)

BMP Title:

BMP Description:

The City will annually review and, if necessary, adjust its current practices in the use of fertilizer, pesticide and herbicide application, mowing, and discharge operations, grass clipping collection, mulching, and composting.

Measurable Goals:

The City will annually document the results of the review and the number of staff who receive training. Continue to evaluate current practices of fertilizer, pesticide, and herbicide application, mowing operations, grass clipping collection, mulching, and composting. Success will be defined as adjusting current practices if necessary.

Responsible Person:

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Title:	Director of Public Works
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[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#)

BMP Title:

BMP Description:

Ensure that plans describing spill prevention and control procedures are consistent among all departments. Conduct annual spill prevention and response training sessions to all municipal employees. Distribute education materials to each municipal facility by the end of year 2.

Measurable Goals:

A spill prevention and control plan effectively reduces the risk of surface and ground water contamination. However, to be effective, workers must be trained, materials and cleanup equipment available, and procedures followed.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
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[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#)

BMP Title:

BMP Description:

Update facilities inventory to identify potential pollutants at each site. Create a map of all identified facilities and BMPs implemented to prevent detrimental impacts to water quality.

Measurable Goals:

The effectiveness of this BMP will be determined by the reduction of pollutants running off of these sites as well as the usability of the inventory.

Responsible Person:

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Title:	Director of Public Works
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Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#)

[Part III.D.6.](#)

[Part III.D.6.](#)

BMP Title:

BMP Description:

In year 1, develop procedures for determining TSS and TP treatment effectiveness of city owned ponds use for treatment of stormwater. Implement schedule in year 2-5. The schedule (which may exceed this permit term) shall be based on measureable goals and priorities established by the City.

Measurable Goals:

The effectiveness of this BMP will be measured by the reduction of TSS and TP discharge into the stormwater systems. Success of this BMP will be defined as conducting and documenting inspections, repairs, and maintenance to the stormwater ponds.

Responsible Person:

Name:	Todd Hubmer
Title:	City Engineer
Phone:	(763) 287-7182
Email:	thubmer@wsbeng.com

[illegible]



BMP PAGE

Unique Identifying Number:

Implementation Table

Permit Requirements Addressed by this BMP:

[Part III.D.6.](#) [Part III.D.6.](#) [Part III.D.6.](#)

BMP Title:

BMP Description:

Provide a presentation annually to generate Staff awareness of SWPPP regulations and to develop projects with appropriate BMPs applied.

Measurable Goals:

Document the staff that attended the training session.

Responsible Person:

Name:	Jay Hartman
Title:	Director of Public Works
Phone:	(612) 782-3314
Email:	jay.hartman@ci.saint-anthony.mn.us

[illegible]



Implementation Table

BMP Title:	Inspection of the MS4 Outfalls, Sediment Basins, and Ponds
-------------------	--

The City will inspect all mapped outfalls, sediment basins, and ponds a minimum of once per permit term. The inspections will be prioritized based on potential maintenance need.

The inspections will include recording the number inspected, conditions, and if any illicit discharges were detected. 100% of outfalls, sediment basins, and ponds inspected within permit term.

Name:	Jeremy Gumke
Title:	Public Works Superintendent
Phone:	(612) 782-3314
Email:	jeremy.gumke@ci.saint-anthony.mn.us

[illegible]

[Back](#)**Part II.D.1.**

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 this permit.

[Back](#)**Part II.D.2.**

A description of all Regulatory Mechanism(s) (e.g., contract language, an ordinance, permits, standards, etc.) the applicant has developed, implemented, and enforced that satisfies the requirements of each program specified under Part III.D.3, 4, and 5. The description shall include the type(s) of Regulatory Mechanism(s) the applicant has in place at the time of application that will be used to satisfy the requirements. If the Regulatory Mechanism(s) have not been developed at the time of application (e.g., new permittee applicants), or revised to meet new requirements of this permit (e.g., existing permittee applicants); the applicant shall describe tasks and corresponding schedules necessary to satisfy the permit requirements in accordance with the schedule in Appendix A, Table 2 (existing permittee applicants), or Table 3 (new permittee applicants).

[Back](#)**Part II.D.3.**

A description of existing Enforcement Response Procedures (ERPs) the applicant has developed and implemented that satisfy the requirements of Part III.B.1. If the applicant has not yet developed ERPs (e.g., new permittee applicants), or existing ERPs must be updated to satisfy new requirements, the description must include tasks and corresponding schedules necessary to satisfy the permit requirements in accordance with the schedule in Appendix A, Table 2 (existing permittee applicants), or Table 3 (new permittee applicants).

[Back](#)**Part II.D.4.**

A description of the status of the applicant's storm sewer system map and inventory as required by Part III.C. The description must indicate whether each requirement of Part III.C.1, is satisfied, and for Part III.C.2, is complete, at the time of application. For each requirement of Part III.C that is not satisfied at the time of application, the applicant shall include tasks and corresponding schedules necessary to satisfy the mapping and inventory requirements in accordance with the schedule in Appendix A, Table 2 (existing permittee applicants), or Table 3 (new permittee applicants).

[Back](#)**Part II.D.5.**

For each Minimum Control Measure (MCM) outlined in Part III.D:

- a. The Best Management Practices (BMPs) the applicant will implement, or has implemented, for each MCM.
- b. The measurable goals for each of the BMPs identified in Part II.D.5.a, including as appropriate, the months and years in which the applicant will undertake required actions, including interim milestones and the frequency of the action, in narrative or numeric form, as appropriate.
- c. Name(s) of individual(s) or position titles responsible for implementing and/or coordinating each component of the MCM.

[Back](#)**Part II.D.6.**

For each applicable Waste Load Allocation (WLA) approved prior to the effective date of this permit, the applicant shall submit the following information as part of the SWPPP document:

- a. TMDL project name(s)
- b. Numeric WLA(s), including units
- c. Type of WLA (Le., categorical or individual)
- d. Pollutant(s) of concern
- e. Applicable flow data specific to each applicable WLA

[Back](#)**Part II.D.6.f**

- f. For each applicable WLA not met at the time of application, a compliance schedule is required. Compliance schedules can be developed to include multiple WLAs associated with a TMDL project and shall include:
- (1) Interim milestones, expressed as BMPs or progress toward implementation of BMPs to be achieved during the term of this permit
 - (2). Dates for implementation of interim milestones
 - (3) Strategies for continued BMP implementation beyond the term of this permit
 - (4) Target dates the applicable WLA(s) will be achieved
- g. For each applicable WLA the permittee is reasonably confident is being met at the time of application, the permittee must provide the following documentation:
- (1) Implemented BMPs used to meet each applicable WLA
 - (2) A narrative describing the permittee's strategy for long-term continuation of meeting each **applicable WLA** .

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Part_II.D.7.

For the requirements of Part III.F, **Alum or Ferric Chloride Phosphorus Treatment Systems**, if applicable, the applicant shall submit the following:

- a. **Geographic coordinates** of the system
- b. Name(s) of individual(s) or position titles responsible for the operation of the system
- c. Information listed in Part III.F.3.a(1)-(6), if the system is constructed at the time the application is submitted to the **Agency**
- d. Indicate if the system complies with the requirements of Part III.F
- e. If applicable, for each Part III.F requirement that the applicant's system does not comply with at the time of application, describe tasks and corresponding schedules necessary to bring the system into compliance in accordance with the schedule in Appendix A, Table 2 (**existing permittee applicants**), or Table 3 (**new permittee applicants**).

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Part_III.

If the permittee enters into a partnership for purposes of meeting SWPPP requirements, the permittee maintains legal responsibility for compliance with this permit.

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Part_III.A.

A. Regulatory Mechanism(s)

To the extent allowable under state, tribal or local law, the permittee shall develop, implement, and enforce a Regulatory Mechanism(s) to meet the terms and conditions of Part III.D.3.4. and

5. A Regulatory Mechanism(s) for the purposes of this permit may consist of contract language, an ordinance, permits, standards, or any other mechanism, that will be enforced by the permittee.

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Part_III.B.1.

B. Enforcement Response Procedures (ERPs)

1. The permittee shall develop and implement written ERPs to enforce and compel compliance with the .Regulatory Mechanism(s) developed and implemented by the permittee in accordance with Part III.A.

[Back](#)

Part_III.B.2.

B. Enforcement Response Procedures (ERPs)

2. Enforcement conducted by the permittee pursuant to the ERPs shall be documented. Documentation shall include, at a minimum, 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), including reference(s) to relevant Regulatory Mechanism(s)

- d. Corrective action(s) (including completion schedule) issued by the permittee
- e. Date(s) and type(s) of enforcement used to compel compliance (e.g., written notice, citation, stop work order, withholding of local authorizations, etc.)
- f. Referrals to other regulatory organizations (if any)
- g. Date(s) violation(s) resolved

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Part III.C.1.

C. Mapping and Inventory

Mapping

New permittees shall develop, and existing permittees shall update, a storm sewer system map that depicts the following:

- a. The permittee's entire small 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, and an associated geographic coordinate
- c. Structural stormwater BMPs that are part of the permittee's small MS4
- d. All receiving waters

[Back](#)

Part III.C.2.

C. Mapping and Inventory

Inventory (2009 Minnesota Session Law, Ch. 172. Sec. 28).

- a. The permittee shall complete an inventory of:
 - (1) All ponds within the permittee's jurisdiction that are constructed and operated for purposes of water quality treatment, stormwater detention, and flood control, and that are used for the collection of stormwater via constructed conveyances. Stormwater ponds do not include areas of temporary ponding, such as ponds that exist only during a construction project or short-term accumulations of water in road ditches.
 - (2) All wetlands and lakes, within the permittee's jurisdiction, that collect stormwater via constructed conveyances.
- b. The permittee shall complete and submit the inventory to the Agency on a form provided by the Commissioner. Each feature inventoried shall include the following information:
 - (1) A unique identification (ID) number assigned by the permittee
 - (2) A geographic coordinate
 - (3) Type of feature (e.g., pond, wetland, or lake). This may be determined by using best professional judgment.

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Part III.D.

D. Minimum Control Measures (MCMs)

The permittee shall incorporate the following six MCMs into the SWPPP. The permittee shall document as part of the SWPPP, a description of BMPs used for each MCM, the responsible person(s) and department(s) in charge, an implementation schedule, and measureable goals that will be used to determine the success of each BMP.

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Part III.D.1.

1. Public Education and Outreach

New permittees shall develop and implement, and existing permittees shall revise their 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 water bodies and that includes actions citizens, businesses, and other local organizations can take to reduce the discharge of pollutants to stormwater. The program shall also include:

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Part III.D.1.a.1

- a. Distribution of educational materials or equivalent outreach focused on:
- (1) Specifically selected stormwater-related issue(s) of high priority to the permittee to be emphasized during this permit term (e.g., specific TMDL reduction targets, changing local business practices, promoting adoption of residential BMPs, lake improvements through lake associations, responsible management of pet waste, household chemicals; yard waste, deicing materials, etc.)

[Back](#) **Part_III.D.1.a.2**

- (2) Illicit discharge recognition and reporting illicit discharges to the permittee

[Back](#) **Part_III.D.1.b.**

- b. An implementation plan that consists of the following:
- (1) Target audience(s), including measurable goals for each audience
 - (2) Responsible Person(s) in charge of overall plan implementation
 - (3) Specific activities and schedules to reach measurable goals for each target audience
 - (4) A description of any coordination with and/or use of other stormwater education and outreach programs being conducted by other entities, if applicable
 - (5) Annual evaluation to measure the extent to which measurable goals for each target audience are attained

[Back](#) **Part_III.D.1.c.**

- c. Documentation of the following information:
- (1) A description of any specific stormwater-related issues identified by the permittee under Part III.D.1.a(l)
 - (2) All information required under Part III.D.1.b
 - (3) Any modifications made to the program as a result of the annual evaluation under Part III.D.1.b(5)
 - (4) Activities held, including dates, to reach measurable goals
 - (5) Quantities and descriptions of educational materials distributed, including dates distributed

[Back](#) **Part_III.D.2.**

2. Public Participation/Involvement

- a. New permittees shall develop and implement, and existing permittees shall revise their current program, as necessary, and continue to implement, a Public Participation/Involvement program to solicit public input on the SWPPP. The permittee shall:

[Back](#) **Part_III.D.2.a.1.**

- (1) Provide a minimum of one (1) opportunity annually for the public to provide input on the adequacy of the SWPPP. Public meetings can be conducted to satisfy this requirement provided appropriate local public notice requirements are followed and opportunity to review and comment on the SWPPP is provided.

[Back](#) **Part_III.D.2.a.2.**

- (2) 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. 9 13.

[Back](#) **Part_III.D.2.a.3.**

- (3) Consider public input, oral and written, submitted by the public to the permittee, regarding the SWPPP.

[Back](#) **Part_III.D.2.b.**

b. Document the following information:

- (1) All relevant written input submitted by persons regarding the SWPPP .
- (2) 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
- (3) Date(s) and location(s) of events held for purposes of compliance with this requirement
- (4) Notices provided to the public of any events scheduled to meet this requirement, including any electronic correspondence (e.g., website, e-mail distribution lists, notices, etc.)

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Part III.D.3.

3. Illicit Discharge Detection and Elimination (IDDE)

New permittees shall develop, implement, and enforce, and existing permittees shall revise their current program as necessary, and continue to implement and enforce, a program to detect and eliminate illicit discharges into the small MS4. The IDDE program shall consist of the following:

[Back](#)

Part III.D.3.a.

a. Map of the small MS4 as required by Part III.C.1.

[Back](#)

Part III.D.3.b.

b. Regulatory Mechanism(s) that effectively prohibits non-stormwater discharges into the small MS4, except those non-stormwater discharges authorized under Part I.B.I.

[Back](#)

Part III.D.3.c.

c. Incorporation of illicit discharge detection into all inspection and maintenance activities' conducted under Part III.D.6.e and f. Where feasible, illicit discharge inspections shall be conducted during dry-weather conditions (e.g., periods of 72 or more hours of no precipitation).

[Back](#)

Part III.D.3.d.

d. Detecting and tracking the source of illicit discharges using visual inspections. The permittee may also include the use of mobile cameras, collecting and analyzing water samples, and/or other detailed inspection procedures that may be effective investigative tools.

[Back](#)

Part III.D.3.e.

e. Training of all field staff, in accordance with the requirements of Part III.D.6.g(2), in illicit discharge recognition (including conditions which could cause illicit discharges), and reporting illicit discharges for further investigation.

[Back](#)

Part III.D.3.f.

f. Identification of priority areas likely to have illicit discharges, including at a minimum, evaluating land uses associated with business/industrial activities, areas where illicit discharges have been identified in the past, and areas with storage of large quantities of significant materials that could result in an illicit discharge. Based on this evaluation, the permittee shall conduct additional illicit discharge inspections in those areas identified as having a higher likelihood for illicit discharges.

[Back](#)

Part III.D.3.g.

g. For timely response to known, suspected, and reported illicit discharges:

- (1) Procedures for investigating, locating, and eliminating the source of illicit discharges.
- (2) Procedures for responding to spills, including emergency response procedures to

prevent spills from entering the small MS4. The procedures shall 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. 9 115.061.

- (3) When the source of the illicit discharge is found, ERPs required by Part III.B (if necessary) to eliminate the illicit discharge and require any needed corrective action(s).

[Back](#) **Part_III.D.3.h.**

h. Documentation of the following information:

- (1) Date(s) and location(s) of IDDE inspections conducted in accordance with Part III.D.3.c and f
- (2) Reports of alleged illicit discharges received, including date(s) of the report(s), and any follow-up action(s) taken by the permittee
- (3) Date(s) of discovery of all illicit discharges
- (4) Identification of outfalls, or other areas, where illicit discharges have been discovered
- (5) Sources (including a description and the responsible party) of illicit discharges (if known)
- (6) Action(s) taken by the permittee, including date(s), to address discovered illicit discharges

[Back](#) **Part_III.D.4.**

4. Construction Site Stormwater Runoff Control

New permittees shall develop, implement, and enforce, and existing permittees shall revise their current program, as necessary, and continue to implement and enforce, a Construction Site Stormwater Runoff Control program that reduces pollutants in stormwater runoff to the small MS4 from 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, that occurs within the permittee's jurisdiction. The program shall incorporate the following components:

[Back](#) **Part_III.D.4.a.**

a. Regulatory Mechanism(s)

A Regulatory Mechanism(s) that establishes requirements for erosion and sediment controls and waste controls that is at least as stringent as the Agency's general permit to Discharge Storm water Associated with Construction Activity NO.MN R100001 (as of the effective date of this permit). The permittee's Regulatory Mechanism(s) shall require that owners and operators of construction activity develop site plans that must be submitted to the permittee for review and approval, prior to the start of construction activity. Site plans must be kept up-to-date by the owners and operators of construction activity with regard to stormwater runoff controls. The Regulatory Mechanism(s) must require that site plans incorporate the following erosion and sediment controls and waste controls as described in the above referenced permit:

- (1) BMPs to minimize erosion
- (2) BMPs to minimize the discharge of sediment and other pollutants
- (3) BMPs for dewatering activities
- (4) Site inspections and records of rainfall events
- (5) BMP maintenance
- (6) Management of solid and hazardous wastes on each project site
- (7) Final stabilization upon the completion of construction activity, including the use of perennial vegetative cover on all exposed soils or other equivalent means
- (8) Criteria for the use of temporary sediment basins

[Back](#) **Part_III.D.4.b.**

b. Site plan review

The program shall include written procedures for site plan reviews conducted by the permittee prior to the start of construction activity, to ensure compliance With requirements of the Regulatory Mechanism(s). The site plan review procedure shall include notification to owners and operators proposing construction activity of the need to apply for and obtain coverage under the Agency's general permit to Discharge Stormwater Associated with Construction Activity NO.MN R100001.

[Back](#) **Part_III.D.4.c.**

c. Public input

The program shall include 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.

[Back](#) **Part_III.D.4.d.**

d. Site inspections

The program shall include written procedures for conducting site inspections, to determine compliance with the permittee's Regulatory Mechanism(s). The written procedures shall:

- (1) Include procedures for identifying priority sites for inspection. Prioritization can be based on such parameters as topography, soil characteristics, type of receiving water(s), stage of construction, compliance history, weather conditions, or other local characteristics and issues.
- (2) Identify frequency at which site inspections will be conducted
- (3) Identify name(s) of individual(s) or position titles responsible for conducting site inspections
- (4) Include a checklist or other written means to document site inspections when determining compliance.

[Back](#) **Part_III.D.4.e.**

e. ERPs required by Part III.B of this permit

[Back](#) **Part_III.D.4.f.**

f. Documentation of the following information:

- (1) For each site plan review - The project name, location, total acreage to be disturbed, owner and operator of the proposed construction activity, and any stormwater related comments and supporting documentation used by the permittee to determine project approval or denial.
- (2) For each site inspection - Inspection checklists or other written means used to document site inspections

[Back](#) **Part_III.D.5.**

5. Post-Construction Stormwater Management

New permittees shall develop, implement, and enforce, and existing permittees shall 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, related to new development and redevelopment projects 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 small MS4. The program shall consist, at a minimum, of the following:

[Back](#) **Part_III.D.5.a.**

a. A Regulatory Mechanism(s) that incorporates:

[Back](#)

Part III.D.5.a.1.

- (1) A requirement that owners and/or operators of construction activity submit site plans with post-construction stormwater management BMPs to the permittee for review and approval, prior to start of construction activity

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Part III.D.5.a.2.

- (2) Conditions for Post-Construction Stormwater Management:
The permittee shall develop and implement a Post-Construction Stormwater Management program that requires the use of any combination of BMPs, with highest preference given to Green Infrastructure techniques and practices (e.g., infiltration, evapotranspiration, reuse/harvesting, conservation design, urban forestry, green roofs, etc.), necessary to meet the following conditions on the site of a construction activity to the MEP:
 - (a) For new development projects - no net increase from pre-project conditions (on an annual average basis) of:
 - 1) Stormwater discharge Volume, unless precluded by the stormwater management limitations in Part III.D.5.a(3)(a)
 - 2) Stormwater discharges of Total Suspended Solids (TSS)
 - 3) Stormwater discharges of Total Phosphorus (TP)
 - (b) For redevelopment projects - a net reduction from pre-project conditions (on an annual average basis) of:
 - 1) Stormwater discharge Volume, unless precluded by the stormwater management limitations in Part III.D.5.a(3)(a)
 - 2) Stormwater discharges of TSS
 - 3) Stormwater discharges of TP

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Part III.D.5.a.3.

- (3) Stormwater management limitations and exceptions
 - (a) Limitations
 - 1) The permittee's Regulatory Mechanism(s) shall prohibit the use of infiltration techniques to achieve the conditions for post-construction stormwater management in Part III.D.5.a(2) when the infiltration structural stormwater BMP will receive discharges from, or be constructed in areas:
 - a) Where industrial facilities are not authorized to infiltrate industrial stormwater under an NPDES/SDS Industrial Stormwater Permit issued by the Agency
 - b) Where vehicle fueling and maintenance occur
 - c) 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
 - d) Where high levels of contaminants in soil or groundwater will be mobilized by the infiltrating stormwater
 - 2) The permittee's Regulatory Mechanism(s) shall restrict the use of infiltration techniques to achieve the conditions for post-construction stormwater management, without higher engineering review, sufficient to provide a functioning treatment system and prevent adverse impacts to groundwater, when the infiltration device will be constructed in areas:
 - a) With predominately Hydrologic Soil Group D (clay) soils
 - b) Within 1,000 feet up-gradient, or 100 feet down-gradient of active karst features
 - c) Within a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, subp. 13
 - d) Where soil infiltration rates are more than 8.3 inches per hour
 - 3) For linear projects where the lack of right-of-way precludes the installation of volume control practices that meet the conditions for post-construction

stormwater management in Part.III.D.5.a(2), the permittee's Regulatory Mechanism(s) may allow exceptions as described in Part III.D.5.a(3)(b). The permittee's Regulatory Mechanism(s) shall ensure that a reasonable attempt be made to obtain right-of-way during the project planning process.

(b) Exceptions for stormwater discharge volume

The permittee's Regulatory Mechanism(s) may allow for lesser volume control on the site of the original construction activity than that in Part III.D.5.a(2) only under the following circumstances:

- 1) The owner and/or operator of a construction activity is precluded from infiltrating stormwater through a designed system due to any of the infiltration related limitations described above, and
- 2) The owner and/or operator of the construction activity implements, to the MEP, volume reduction techniques, other than infiltration, (e.g., evapotranspiration, reuse/harvesting, conservation design, green roofs, etc.) on the site of the original construction activity that reduces stormwater discharge volume, but may not meet the conditions for post construction stormwater management in Part III.D.5.a(2).

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Part III.D.5.a.4.

(4) Mitigation provisions

There may be circumstances where the permittee or other owners and operators of a construction activity cannot cost effectively meet the conditions for post construction stormwater management for TSS and/or TP in Part III.D.5.a(2) on the site of the original construction activity. For this purpose, the permittee shall \ identify, or may require owners or operators of a construction activity to identify, locations where mitigation projects can be completed. The permittee's Regulatory Mechanism(s) shall ensure that any stormwater discharges of TSS and/or TP not addressed on the site of the original construction activity are addressed through mitigation and, at a minimum, shall ensure the following requirements are met:

- (a) Mitigation project areas are selected in the following order of preference:
 - 1) Locations that yield benefits to the same receiving water that receives runoff from the original construction activity
 - 2) Locations within the same Department of Natural Resource (DNR) catchment area as the original construction activity
 - 3) Locations in the next adjacent DNR catchment area up-stream
 - 4) Locations anywhere within the permittee's jurisdiction
- (b) Mitigation 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.
- (c) Routine maintenance of structural stormwater BMPs already required by this permit cannot be used to meet mitigation requirements of this Part.
- (d) Mitigation projects shall be completed within 24 months after the start of the original construction activity.
- (e) The permittee shall determine, and document, who is responsible for long-term maintenance on all mitigation projects of this Part .
- (f) If the permittee receives payment from the owner and/or operator of a construction activity for mitigation purposes in lieu of the owner or operator of that construction activity meeting the conditions for post-construction stormwater management in Part III.D.5.a(2), the permittee shall apply any such payment received to a public stormwater project, and all projects must be in compliance with Part III.D.5.a(4)(a)-(e).

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Part III.D.5.a.5.

(5) Long-term maintenance of structural stormwater BMPs

The permittee's Regulatory Mechanism(s) shall provide for the establishment of legal mechanism(s) between the permittee and owners or operators responsible for the long-term maintenance of structural stormwater BMPs not owned or operated by the permittee, that have been implemented to meet the conditions for post construction stormwater management in Part III.D.5.a(2). This only includes structural stormwater BMPs constructed after the effective date of this permit, that are directly connected to the permittee's MS4, and that are in the permittee's jurisdiction. The legal mechanism shall 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 that the owner and/or operator of that structural stormwater BMP has not conducted maintenance ..
- (b) Include conditions that 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.
- (c) Include conditions that are designed to protect/preserve structural stormwater BMPs and site features that are implemented to comply with Part III.D.5.a(2). If site configurations or structural stormwater BMPs change, causing decreased structural stormwater BMP effectiveness, new or improved structural stormwater BMPs must be implemented to ensure the conditions for post construction stormwater management in Part III.D.S.a(2) continue to be met.

[Back](#) **Part_III.D.5.b.**

b. Site plan, review

The program shall include written procedures for site plan reviews conducted by the permittee prior to the start of construction activity, to ensure compliance with requirements , of the Regulatory Mechanism(s).

[Back](#) **Part_III.D.5.c.**

c. Documentation of the following information:

- (1) Any supporting documentation used by the permittee to determine compliance with Part III.D.5.a, including the project name, location, owner and operator of the construction activity, any checklists used for conducting site plan reviews, and any calculations used to determine compliance
- (2) All supporting documentation associated with mitigation projects authorized by the permittee
- (3) Payments received and used in accordance with Part III.D.S.a(4)(f)
- (4) All legal mechanisms drafted in accordance with Part III.D.S.a(S), including date(s) of the agreement(s) and name(s) of all responsible parties involved

[Back](#) **Part_III.D.6.**

6. Pollution Prevention/Good Housekeeping For Municipal Operations

New permittees shall develop and implement, and existing permittees shall revise their current program, as necessary, and continue to implement, an operations and maintenance program that prevents or reduces the discharge of pollutants from permittee owned/operated facilities and operations to the small MS4. The operations and maintenance program shall include, at a minimum, the following:

[Back](#) **Part_III.D.6.a.**

a. Facilities Inventory

The permittee shall develop and maintain an inventory of permittee owned/operated facilities that contribute pollutants to stormwater discharges. Facilities to be inventoried may include, but is not limited to: composting, equipment storage and

maintenance, hazardous waste disposal, hazardous waste handling and transfer; landfills, solid waste handling and transfer, parks, pesticide storage, public parking lots, public golf courses; public swimming pools, public works yards, recycling, salt storage, vehicle storage and maintenance (e.g., fueling and washing) yards, and materials storage yards.

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Part_III.D.6.b.

b. Development and Implementation of BMPs for inventoried facilities and municipal operations

Considering the source of pollutants and sensitivity of receiving waters (e.g., Outstanding Resource Value Waters (ORVWs), impaired waters, trout streams, etc.), the permittee shall develop and implement BMPs that prevent or reduce pollutants in stormwater discharges from the small MS4 and from:

- (1) All inventoried facilities that discharge to the MS4, and
- (2) The following municipal operations that may contribute pollutants to stormwater discharges, where applicable:
 - (a) Waste disposal and storage, including dumpsters
 - (b) Management of temporary and permanent stockpiles of materials such as street sweepings, snow, deicing materials (e.g., salt), sand and sediment removal piles

- (c) Vehicle fueling, washing and maintenance
- (d) Routine street and parking lot sweeping
- (e) Emergency response, including spill prevention plans
- (f) Cleaning of maintenance equipment, building exteriors, dumpsters, and the disposal of associated waste and wastewater
- (g) Use, storage, and disposal of significant materials
- (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
- (k) Application of herbicides, pesticides, and fertilizers
- (l) Cold-weather operations, including plowing or other snow removal practices, sand use, and application of deicing compounds

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Part_III.D.6.c.

c. Development and implementation of BMPs for MS4 discharges that may affect Source Water Protection Areas (Minn. R. 4720.5100-4720.5590)

The permittee shall incorporate BMPs into the SWPPP to protect any of the following drinking water sources that the MS4 discharge may affect, and the permittee shall include the map of these sources with the SWPPP if they have been mapped:

- (1) Wells and source waters for DWSMAs identified as vulnerable under Minn. R. 4720.5205, 4720.5210, and 4720.5330
- (2) Source water protection areas for surface intakes identified in the source water assessments conducted by or for the Minnesota Department of Health (MDH) under the federal Safe Drinking Water Act, U.S.C. §§ 300j - 13

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Part_III.D.6.d.

d. Pond Assessment Procedures and Schedule

The permittee shall develop procedures and a schedule 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. The schedule (which may exceed this permit term) shall be based on measureable goals and priorities established by the permittee.

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Part_III.D.6.e.

e. Inspections

- (1) Unless inspection frequency is adjusted as described below, the permittee shall conduct annual inspections of structural stormwater BMPs (excluding stormwater ponds which are under a separate schedule below) to determine structural integrity, proper function and maintenance needs.
Inspections of structural stormwater BMPs shall be conducted annually unless the permittee determines if either of the following conditions apply: 1) Complaints received or patterns of maintenance indicate a greater frequency is necessary, or 2) Maintenance or sediment removal is not required after completion of the first two' annual inspections; in which case the permittee may reduce the frequency of inspections to once every two (2) years. However, existing permittees are authorized under this permit to continue using inspection frequency adjustments, previously determined under the general storm water permit/or small MS4s NO.MNR040000, effective June 1, 2006, provided that documentation requirements in Part III.D.6.h(2) are satisfied.
- (2) Prior to the expiration date of this permit, the permittee shall conduct at least one inspection of all ponds and outfalls (excluding underground outfalls) in order to determine structural integrity, proper function, and maintenance needs.
- (3) The permittee shall conduct quarterly inspections of stockpiles, and storage and material handling areas as inventoried in Part III.D.6.a, to determine maintenance

needs and proper function of BMPs.

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Part III.D.6.f.

f. Maintenance

Based on inspection findings, the permittee shall determine if repair, replacement, or maintenance measures are necessary in order to ensure the structural integrity, proper function, and treatment effectiveness of structural stormwater BMPs. Necessary maintenance shall be completed as soon as possible to prevent or reduce the discharge of pollutants to stormwater.

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Part III.D.6.g.

g. Employee Training

The permittee shall develop and implement a stormwater management training program commensurate with employee's job-duties 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 employee training program shall:

- (1) Address the importance of protecting water quality
- (2) Cover the requirements of the permit relevant to the job duties of the employee
- (3) Include a schedule that establishes initial training for new and/or seasonal employees, and recurring training intervals for existing employees to address changes in procedures, practices, techniques, or requirements

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Part III.D.6.h.

h. Documentation of the following information:

- (1) Date(s) and description of findings of all inspections conducted in accordance with Part III.D.6.e
- (2) Any adjustments to inspection frequency as authorized under Part III.D.6.e(1)
- (3) A description of maintenance conducted, including dates, as a result of inspection findings
- (4) Pond sediment excavation and removal activities, including:
 - (a) The unique ID number (consistent with that required in Part 111.C.2.a) 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
 - (d) Location(s) of final disposal of sediment from each stormwater pond
- (5) Employee stormwater management training events, including a list of topics covered, names of employees in attendance, and date of each event

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Part III.E.

E. Discharges to Impaired Waters with a USEPA-Approved TMDL that Includes an Applicable WL

For each applicable WLA approved prior to the effective date of this permit, the BMPs included in the compliance schedule at application constitute a discharge requirement for the permittee. The permittee shall demonstrate continuing progress toward meeting each discharge requirement, on a form provided by the Commissioner, by submitting the following:

1. An assessment of progress toward meeting each discharge requirement, including a list of all BMPs being applied to achieve each applicable WLA. For each structural stormwater BMP, the permittee shall provide a unique identification (ID) number and geographic coordinate. If the listed structural stormwater BMP is also inventoried as required by Part III.C.2, the same ID number shall be used.
2. A list of all BMPs the permittee submitted at the time of application in the SWPPP document compliance schedule(s) and the stage of implementation for each BMP, including any BMPs specifically identified for the small MS4 in the TMDL report that the permittee

- plans to implement
3. An up-dated estimate of the cumulative reductions in loading achieved for each pollutant of concern associated with each applicable WLA
 4. An up-dated narrative describing any adaptive management strategies used (including projected dates) for making progress toward achieving each applicable WLA

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Part_III.F.

F. Alum or Ferric Chloride Phosphorus Treatment Systems

If the permittee uses an alum or ferric chloride phosphorus treatment system, the permittee shall-comply with the following:

1. Minimum Requirements of an Alum or Ferric Chloride Phosphorus Treatment System
 - a. Limitations
 - (1) The permittee shall use the treatment system for the treatment of phosphorus in stormwater. Non-stormwater discharges shall not be treated by this system.
 - (2) The treatment system must be contained within the conveyances and structural stormwater BMPs of a small MS4. The utilized conveyances and structural stormwater BMPs shall not include any receiving waters.
 - (3) Phosphorus treatment systems utilizing chemicals other than alum or ferric chloride must receive written approval from the Agency.
 - (4) In-lake phosphorus treatment activities are not authorized under this permit.
 - b. Treatment System Design
 - (1) The treatment system shall be constructed in a manner that diverts the stormwater flow to be treated from the main conveyance system.
 - (2) A High Flow Bypass shall be part of the inlet design.
 - (3) A flocculent storage/settling area shall be incorporated into the design, and adequate maintenance access must be provided (minimum of 8 feet wide) for the removal of accumulated sediment.
2. Monitoring During Operation
 - a. A designated person shall perform visual monitoring of the treatment system for proper performance at least once every seven (7) days, and within 24 hours after a rainfall event greater than 2.5 inches in 24 hours. Following visual monitoring which occurs within 24 hours after a rainfall event, the next visual monitoring must be conducted within seven (7) days after that rainfall event.
 - b. Three benchmark monitoring stations shall be established. Table B-1 shall be used for the parameters, units of measure, and frequency of measurement for each station.
 - c. Samples shall be collected as grab samples or flow-weighted 24-hour composite samples.
 - d. Each sample, excluding pH samples, must be analyzed by a laboratory certified by the MDH and/or the MPCA, and:
 - (1) Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and Minn. R. 7041.3200.
 - (2) Detection limits for dissolved phosphorus, dissolved aluminum, and dissolved iron shall be a minimum of 6 micrograms per liter ($\mu\text{g/L}$), 10 $\mu\text{g/L}$, and 20 $\mu\text{g/L}$, respectively.
 - (3) pH must be measured within 15 minutes of sample collection using calibrated and maintained equipment.

Table B-1:
Monitoring Parameters During Operation

Station	Alum Parameters	Ferric Parameters	Units	Frequency
Upstream-Background	Total Phosphorus	Total Phosphorus	mg/L	1 x week
	Dissolved Phosphorus	Dissolved Phosphorus	mg/L	1 x week
	Total Aluminum	Total Iron	mg/L	1 x month
	Dissolved Aluminum	Dissolved Iron	mg/L	1 x week
	pH	pH	SU	1 x week

	Flow	Flow	Mgd	Daily
Alum or Ferric Chloride Feed	Alum	Ferric	Gallons	Daily Total Dosed In Gallons
Discharge From Treatment	Total Phosphorus	Total Phosphorus	mg/L	1 x week
	Dissolved Phosphorus	Dissolved Phosphorus	mg/L	1 x week
	Total Aluminum	Total Iron	mg/L	1 x month
	Dissolved Aluminum	Dissolved Iron	mg/L	1 x week
	pH	pH	SU	1 x week
	Flow	Flow	Mgd	Daily

e. In the following situations, the permittee shall perform corrective action(s) and immediately notify the Minnesota Department of Public Safety Duty Officer at 1-800-422-0798 (toll free) or 651-649-5451 (Metro area):

- (1) The pH of the discharged water is not within the range of 6.0 and 9.0
- (2) Any indications of toxicity or measurements exceeding water quality standards
- (3) A spill, as defined in Minn. Stat. § 115.01, subd. 13, of alum or ferric chloride

3. Reporting and Recordkeeping

a. Annual Reporting

The permittee shall submit the following information with the Annual Report in Part IV.B. The Annual Report must include a month-by-month summary of:

- (1) Date(s) of operation
- (2) Chemical(s) used for treatment
- (3) Gallons of water treated
- (4) Gallons of alum or ferric chloride treatment used
- (5) Calculated pounds of phosphorus removed
- (6) Any performance issues and the corrective action(s), including the date(s) when corrective action(s) were taken

b. On-Site Recordkeeping

A record of the following design parameters shall be kept on-site:

- (1) Site-specific jar testing conducted using typical and representative water samples in accordance with ASTM D2035-08 (2003)
- (2) Baseline concentrations of the following parameters in the influent and receiving waters:
 - (a) Aluminum or Iron
 - (b) Phosphorus
- (3) The following system parameters and how each was determined:
 - (a) Flocculent settling velocity
 - (b) Minimum required retention time
 - (c) Rate of diversion of stormwater into the system
 - (d) The flow rate from the discharge of the outlet structure
 - (e) Range of expected dosing rates

4. Treatment System Management

The following site-specific procedures shall be developed and a copy kept on-site:

- a. Procedures for the installation, operation and maintenance of all pumps, generators, control systems, and other equipment
- b. Specific parameters for determining when the solids must be removed from the system and how the solids will be handled and disposed of
- c. Procedures for cleaning up and/or containing a spill of each chemical stored on-site

-A