



City of Rockwall  
*The New Horizon*

# STORM WATER MANAGEMENT PROGRAM

For the City of Rockwall, Texas

Permit Year Coverage: 2025 – 2029

TCEQ General Permit Approval Date: August 15<sup>th</sup>, 2024

NOI Submittal Deadline: February 11<sup>th</sup>, 2025

Permit Expiration Date: August 15<sup>th</sup>, 2029

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Exhibit 1 – Rockwall City Limits Map

Exhibit 2 – Storm Sewer Outfall Map

Appendix 1 – TPDES General Permit No. TXR040000

## **Preface**

### **Regulatory Background**

The City of Rockwall (“Rockwall” or “the City”) is a small Municipal Separate Storm Sewer System (MS4) operator that is located within an urbanized area as determined by the 2020 Census by the U.S. Census Bureau and is eligible for coverage under TPDES General Permit No. TXR040000 (General Permit).

The City previously operated under the 2019 General Permit and is reapplying for permit coverage. Until the new SWMP is approved, the City will operate under the conditions of the previous permit and existing SWMP. The population served within the City of Rockwall is over 40,000 but less than 100,000 based on 2020 Census data, therefore the City is categorized as a Level 3 MS4 Operator.

To the extent allowable under state and local law, a Storm Water Management Program (SWMP) must be developed and implemented according to the requirements of Part IV of TPDES General Permit No. TXR040000, for storm water discharges that reach waters of the United States. The SWMP must be developed to prevent pollution in storm water to the maximum extent practicable (MEP) and effectively prohibit illicit discharges to the system. Existing programs or best management practices (BMPs) may be used to fulfill the requirements of the General Permit. The SWMP must include a timeline that demonstrates a schedule for implementation of the program throughout the permit term. If changes to the plan are needed, revisions will be summarized in the Annual Report. For any major changes to the SWMP, the required Notice of Revision will be submitted. New elements required in the General Permit must be completely implemented within the 5 years of the permit issuance date.

### **Setting**

The City of Rockwall, located at Latitude 32°55’12” and Longitude 92°27’35”, is the county seat of Rockwall County. The city limits cover over 27.68 square miles with a population of approximately 47,251 (Census 2020, U.S. Census Bureau).

The topography in Rockwall varies from level to gently rolling, with an elevation of approximately 591 feet above sea level. The City is on the east shore of Lake Ray Hubbard, and numerous streams flow through the City. Rockwall’s annual average temperature is 66 degrees Fahrenheit (°F) with a mean low temperature of 55°F and a mean high temperature of 77°F. The annual average precipitation is 36.9 inches.

Drainage policies have been developed by the City and are regulated through the development permitting process. The City’s Engineering Department coordinates this process. The City Engineering Department is responsible for reviewing construction plans, including specifications, for compliance with City drainage policies. Exhibit 1 depicts the City limits and service area for the City of Rockwall.

### **Organization and Legal Authority**

The City of Rockwall operates under a Council-Manager form of government. Six council members and a mayor represent the City Council which sets City policies and issues City ordinances and rules. The Mayor and Council members appoint the City Manager. The City Manager is responsible for preparing recommendations for Council consideration, serves as the Council’s Chief Advisor and carries out the Council’s policies. The City Attorney assists with updating existing ordinances and writing and implementing new ordinances.

## Orders and Guidance

Key City of Rockwall ordinances and guidelines that may be affected by the SWMP include:

- City of Rockwall Standards of Design and Construction
- City of Rockwall Storm Water Management Ordinance
- City of Rockwall Code of Ordinances
  - ✓ Chapter 10 – Buildings and Building Regulations
  - ✓ Chapter 16 – Environment
  - ✓ Chapter 20 – Floods
  - ✓ Chapter 30 – Parks and Recreation
  - ✓ Chapter 34 – Solid Waste
  - ✓ Chapter 36 – Streets, Sidewalks and Public Places
  - ✓ Chapter 38 – Subdivision
  - ✓ Chapter 44 – Utilities
- City of Rockwall Unified Development Code
- Master Drainage Plan
- Tree Preservation Landscape Ordinance
- NCTCOG integrated Storm Water Management (iSWM) Program

## Construction and Development

The Code of Ordinances and the Standards for Design and Construction govern development in the City of Rockwall. It is recommended that a pre-application conference be held with City staff for potential development projects. The applicant submits general information for the project and provides an opportunity to receive feedback regarding a proposal prior to preparing drawings and information for the application. Each application submittal is reviewed by the City's Development Review Committee comprised of representatives from development-related departments of the City. This group reviews each application to assure compliance with City ordinances and makes recommendations based on good planning principles and practices. The City Engineer reviews the final plan for compliance with the City's Standards for Design and Construction. Based on this review, the Planning Department notifies the applicant of staff comments that need to be addressed.

The City of Rockwall MS4 is permitted under the Texas Commission on Environmental Quality (TCEQ) Texas Pollutant Discharge Elimination System (TPDES) program. To comply with the permit requirements, the City requires the owner and contractor of any development of one acre and greater to comply with the TPDES Construction General Permit (TXR150000), including sites that are part of a larger common development, to submit and get approval of a Storm Water Pollution Prevention Plan (SWPPP) and Construction Site Notice (for small sites) or Notice of Intent (NOI) (for large sites) for the construction activities. Once approved, the City inspects the construction operations to ensure that the proposed controls are maintained appropriately.

The City participated with the NCTCOG in the development of the iSWM program, which includes the Design Manual for Construction. As a member city of the NCTCOG, the City uses the iSWM program as the basis of its SWMP BMPs for storm water management. The purpose of the iSWM Design Manual for Construction is to provide guidance and a framework for incorporating effective and environmentally sensitive storm water management on the new development and redevelopment sites. By incorporating the planning and design criteria proposed in iSWM, the City provides uniform requirements for the preparation of Site Plans, which includes at a minimum: a project description and design considerations,

a description of existing conditions, a conceptual site layout and a SWPPP. By requiring compliance with the TPDES Construction General Permit and with the iSWM requirements, the City addresses the implementation of the SWMP for Minimum Control Measures (MCMs) 4 and 5 (Construction Site Storm Water Runoff and Post-Construction Storm Water Management in New Development and Re-Development).

## **Inspection and Enforcement**

The City's Standards of Design and Construction (Ordinance No. 16-58) and Storm Water Management Ordinance (Ordinance No. 18-15) regulate City construction standards. Per this ordinance, construction of subdivisions and lot development are regulated to prevent erosion and diversion of water from the approved route of discharge. The ordinance recognizes erosion from construction sites as a potential water quality problem and presents methods for temporary and permanent management techniques to control sediment loads. The ordinance makes the developer fully responsible for the construction of off-site drainage improvements necessary for his or her subdivision and the surrounding area.

Once construction plans have been approved by the City Engineer, a construction inspector is assigned to the project to ensure all City codes, policies, and procedures are followed. Project notes are generated from the inspections. The City does not issue the "Site Work Release" until the contractor has erosion control measures in place. Engineering Services conducts a final field inspection once construction is complete. All inspection of construction and verification of compliance to plans and specifications are conducted by City staff under the direction of the City Engineer. The City issues a "Letter of Acceptance" after construction is completed and has been approved.

The City also conducts building inspections through the City's Building Inspections Department, which is part of the City's Building Department. After the final inspections have been approved, the City issues a "Certificate of Occupancy."

In terms of enforcement, the City has ordinances in place to regulate illicit dumping and discharges. Placing of garbage, trash, rubbish and any article, thing or material upon any property within the City limits, except where authorized by law is prohibited and constitutes a violation of Chapter 16, Article III of the Code of Ordinances (Littering). This ordinance also requires owners of the person in charge to dispose of heavy accumulation of brick, concrete, lumber, cinder blocks, automobile frames, trees, shrubbery, large dead animals, industrial wastes and by-products and other bulky material.

Reported illegal dumping/discharges and spills are reported to the City's Public Works Service Center. Once the City receives a complaint, a work order is created and the City dispatches personnel to investigate the complaint.

## **Municipal Operations**

The City will implement housekeeping and operation and maintenance (O&M) practices in its municipal operations for the reduction of potential pollutant runoff. For the implementation of these practices, a training program will be set in place to key personnel in the different areas that could represent a source of storm water pollution.

Currently the City has identified the City of Rockwall Service Center and the Ralph M. Hall Municipal Airport as high-priority areas to implement housekeeping and O&M practices. As part of its SWMP the City will continue reviewing other current municipal operations to identify areas that require implementation of these practices to improve the pollution control efforts.

In addition, the City will have in place a procedure for the inspection and maintenance of its MS4. The procedures will describe the removal of sediments, wastes and floatables from the system.

### **SWMP Rationale**

This SWMP has been designed to address storm water quality management issues typical of a growing community. The BMPs outlined in this SWMP have been selected from the list provided by TCEQ and are based on the growing nature of the City and the current resources available. Each measurable goal and BMP shall be evaluated each permit year to ensure that it is still the most relevant BMP to comply with the requirements of the TCEQ general permit.

A description of all proposed MCMs with measurable goals, including the months and years when the City will undertake required actions will be included with the SWMP. The City will develop ordinances, or maintain existing ordinances, allowed by state, federal, and local law, providing the legal authority necessary to implement and enforce the requirements of this permit. The measurable goals selected in this permit shall be clear, specific, and measurable. There are many existing ordinances and guidelines that may be affected by the SWMP, which can be found in the “Orders and Guidance” section of this report. The City shall periodically review the existing ordinances, and any other enforcement mechanisms, to ensure they are still the most relevant to comply with the requirements of the TCEQ general permit.

There are currently no waterbodies receiving discharges from the small MS4 identified as impaired waters in the Texas Integrated Reports of Surface Water Quality. The impaired waters list shall be reviewed yearly by the City and the SWMP shall be updated as needed. If it is found that any waterbodies are receiving discharges from the small MS4 identified as impaired waters, a program or a plan of compliance shall be prepared based on TMDL requires.

### **SWMP Coverage and Implementation Schedule**

This SWMP addresses the requirements of TPDES General Permit No. TXR040000 for the City of Rockwall, Rockwall County, Texas.

The implementation schedule in the SWMP is proposed based on available information. Where measurable goals are accomplished ahead of schedule, it will be reported in the Annual Report. In the event implementation schedule adjustments are needed, revisions to the SWMP will be made in accordance with the permit.

## **Storm Water Management Program**

### **Regulatory Requirement**

The federal Clean Water Act (CWA) and the Texas Water Code govern the prevention of water pollution across the state of Texas pursuant to rules adopted by the Environmental Protection Agency (EPA) and the TCEQ.

Phase I of the EPA’s storm water program was promulgated in 1990 under the CWA. Phase I relies on the National Pollutant Discharge Elimination System (NPDES) permit coverage to address storm water runoff from: (1) medium and large municipal separate storm sewer systems (MS4s) generally serving

populations of 100,000 or greater, (2) construction activity disturbing 5 acres of land or greater, and (3) ten categories of industrial activity.

## **Annual Reporting**

The City will submit a concise annual report to TCEQ within 90 days after the end of the *calendar year*. The annual report must address the previous year, with the first year being 2024 and the last year being 2028. The annual reports will include the required information as listed in Part V.B.2 of the General Permit. The first-year annual report will be prepared whether or not the NOI and SWMP have been approved by the TCEQ.

## **Storm Water Management Program and Implementation Schedule**

Rockwall has developed the SWMP in accordance with the requirements of the TPDES General Permit TXR040000 for obtaining authorization for storm water discharges and certain non-storm water discharges. The SWMP has been developed to reduce the storm water pollutants from the MS4 to the maximum extent practicable as required by the TPDES General Permit.

As required by the TPDES General Permit, the specific activities to be implemented in this SWMP include the following MCMs:

### **1. Public Education and Outreach:**

The public education and outreach program shall address the residents being served, and one additional target audience within the small MS4 service area. Small MS4 operators shall target specific pollutants in the permittee's education program. Each small MS4 shall have a minimum of one target pollutant for each target audience. Small MS4s may implement more than one target pollutant where desired or appropriate to address pollutants in stormwater discharges to the MEP.

Target Audience Identification:

- Main Target Audience: Residents
- Target Pollutant for Residents: Pet waste, Oil and grease, Grass clippings and leaf litter
- Additional Target Audience #1: Industrial Facilities
- Target Pollutant for Industrial Facilities: Oil, grease, and fluids from vehicles, and Litter, trash containment, and balloon releases

### **2. Public Involvement/Participation:**

Over the permit year, the small MS4 operator shall implement a minimum of four public involvement or participation activities and measurable goals. The BMPs chosen must demonstrate an impact on stormwater runoff by improving water quality.

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

All permittees shall develop, implement, and enforce a program to investigate, detect, and eliminate illicit discharges into the small MS4.

**4. Construction Site Storm Water Runoff Control:**

All permittees shall develop, implement, and enforce a program requiring operators of small and large construction activities to select, install, implement, and maintain stormwater control measures that prevent illicit discharges to the MEP.

**5. Post-Construction Storm Water Management in New Development and Re-Development:**

All permittees shall develop, implement, and enforce a program, to the extent allowable under state, federal, and local law, to control stormwater discharges from new development and redevelopment sites that discharge into the small MS4 that disturb one acre or more, including projects that disturb less than one acre that are part of a larger common plan of development.

**6. Pollution Prevention and Good Housekeeping for Municipal Operations:**

All permittees shall develop and implement an operation and maintenance program (O&M), including an employee training component that has the ultimate goal of preventing or reducing pollutant runoff from municipal activities and municipally owned areas.

The following section presents the regulatory requirements and selected BMPs for each MCM. Measurable goals and responsible parties are identified for each selected BMP.



MCM-1 PUBLIC EDUCATION AND OUTREACH							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Website Posting	Post the SWMP and Annual Reports on the City's website. • The SWMP must be posted no later than 30 days after the NOI approval date. • The Annual Reports must be posted no later than 30 days after the due date.	X	X	X	X	X	Completed by March of each permit year.
Information on the MS4 operator's website.	Maintain a webpage with current and accurate information and working links. • All links shall be checked, and the page shall be updated as necessary at a minimum of once annually. • Must be maintained for the full year, each year.	X	X	X	X	X	Completed by December of each permit year.
Social media posts, social media campaign.	Post a minimum of four times each year on a minimum of one social media platform. • The message shall address ways attendees can minimize or avoid adverse stormwater impacts or practices to improve the quality of stormwater runoff. • The messages shall be seasonally appropriate. • Must make a minimum of one post per quarter and all quarterly posts must be visible by attendees for the full year, each year.	X	X	X	X	X	Completed by December of each permit year.
Maintain or mark storm drains and inlets with, "No Dumping – Drains to Creek" or a similar message	Placard, stencil, or paint a minimum of 10% of all known stormwater inlets in the MS4 area each year. Where all known stormwater inlets have been marked, inspect, and maintain the markers for a minimum of 15% of all known stormwater inlets in the MS4 area each year.	X	X	X	X	X	Completed by December of each permit year.
Publish articles in local newspaper or newsletter, may be electronic.	Develop article topics that are group specific and address activities or pollutants of concern at a seasonally appropriate time. A minimum of two articles must be published or emailed to target audience groups each year.	X	X	X	X	X	Completed by December of each permit year.
Fact sheets/brochures/utility bill inserts/door hangers.	Develop material topics that are group specific and address activities or pollutants of concern. The number of fact sheets, brochures, bill inserts, door hangers, or handouts distributed each year shall at a minimum be enough to reach at least 75% of the intended audience.	X	X	X	X	X	Completed by December of each permit year.

MCM-2 PUBLIC INVOLVEMENT/PARTICIPATION							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Stream/lake or watershed clean-up events; litter/trash clean-up events such as Texas Stream Team, Adopt-A-Highway, Adopt-A-Shop, Adopt-A-Street, Adopt-A-Stream, etc.	<p>Host a minimum of two events annually.</p> <ul style="list-style-type: none"> <li>To be considered an event, the land area cleaned must be a minimum of two acres, 400 yards of stream/streambank/riparian area, or two miles of roadside.</li> <li>These may be combined (such as one acre of land and 200 yards of stream).</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Habitat Improvement; Tree Planting; Invasive Vegetation Removal; Stream Restoration	<p>Host a minimum of two events annually.</p> <ul style="list-style-type: none"> <li>To be considered an event, the project must be a minimum of 0.5 acres or 25 yards.</li> <li>An event may take place in streams, parks, areas adjacent to public waterways, or other green space.</li> <li>Any event may be a combination of locations and areas.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Stormwater Related Speaker Series	Provide a minimum of two sessions each year. These may be different speakers or audiences.	X	X	X	X	X	Completed by December of each permit year.
Educational display/booth at a school, public event, or similar event to provide information or displays that work to improve public understanding of issues related to water quality.	<p>Provide one booth of display at minimum annually.</p> <p>The booth or display must be staffed during the time which the event is open to the public.</p>	X	X	X	X	X	Completed by December of each permit year.

MCM-3 ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE)							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Maintain a current and accurate MS4 map as described in Part IV.D.3.(c)(1).	<p>All permittees shall maintain a current and accurate MS4 map.</p> <ul style="list-style-type: none"> <li>The MS4 map must be located on site and available for review by TCEQ.</li> <li>The MS4 map must show all outfalls that are operated by the permittee and that discharge into Waters of the US, and the location and name of all surface waters receiving discharges from the small MS4 outfalls.</li> </ul> <p>Review and update, as necessary, at least one time annually to include features which have been added, removed, or changed.</p>	X	X	X	X	X	Completed by December of each permit year.
Conduct training for MS4 field staff as described in Part IV.D.3.(c)(2). Training may be conducted in person or using self paced training materials such as videos or reading materials.	<p>Conduct a minimum of one training annually for 100% of MS4 field staff that may come into contact with or otherwise observe an illicit discharge, illegal dumping, or illicit connection to the small MS4 as part of their normal job responsibilities. Training program material and attendance lists must be maintained onsite and made available for review by TCEQ.</p>	X	X	X	X	X	Completed by December of each permit year.
Maintain and publicize a public reporting method for the public to report illicit discharges, illegal dumping, or water quality impacts associated with discharges into or from the small MS4 such as a reporting hotline, online form, or other similar mechanism as described in Part IV.D.3.(c)(3).	<p>All permittees shall publicize and facilitate public reporting of illicit discharges, illegal dumping, or water quality impacts associated with discharges into or from the small MS4. The permittee shall provide a central contact point to receive reports.</p> <ul style="list-style-type: none"> <li>Maintain a minimum of one public reporting mechanism 100% of the time during the permit term.</li> <li>Publicize the public reporting mechanism a minimum of two times annually in a method designed to reach at least 75% of the intended audience.</li> <li>In addition, if the MS4 operator has a public website, the public reporting mechanism must be publicized on the public website 100% of the time during the permit term.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Develop and maintain procedures for responding to illicit discharges, illegal dumping, and spills as described in Part IV.D.3.(c)(4).	<p>All permittees shall develop and maintain onsite procedures for responding to illicit discharges, illegal dumping, and spills. Review and update the procedures at least one time annually to address changes and make improvements to the established procedures where applicable.</p>	X	X	X	X	X	Completed by December of each permit year.
Source investigation and elimination of illicit discharges and illegal dumping as described in Part IV.D.3.(c)(5).	<p>Upon becoming aware of an illicit discharge or illegal dumping, all permittees shall conduct an investigation to identify and locate the source of such illicit discharge or illegal dumping as soon as practicable.</p> <ul style="list-style-type: none"> <li>Respond to 100% of known illicit discharges and illegal dumping incidents each year to investigate sources.</li> <li>Respond to 100% of high priority discharges each year, such as sanitary sewer discharges within 24 hours.</li> <li>For 100% of known illicit discharges or illegal dumping incidents where the small MS4 does not have jurisdiction, notify the adjacent MS4 operator or the applicable TCEQ regional office each year.</li> <li>Notify TCEQ immediately of 100% of illicit flows believed to be an immediate threat to human health or the environment throughout the permit term.</li> <li>Tract all investigations and document the date(s) the illicit discharge or illegal dumping was observed; the result of the investigation; any follow-up of the investigation; and the date the investigation was closed.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.

MCM-3 ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE)							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Corrective action to eliminate illicit discharges and illegal dumping as described in Part IV.D.3.(c)(5).	<p>If and when the source of the illicit discharge or illegal dumping has been determined, all permittees shall immediately notify the responsible party of the problem, and shall require the responsible party to perform all necessary corrective actions to eliminate the illicit discharge and illegal dumping.</p> <ul style="list-style-type: none"> <li>•For 100% of illicit discharges or illegal dumping where a source has been determined, notify the responsible party of the problem within 24 hours.</li> <li>•Require the responsible party to perform all necessary corrective actions to eliminate the illicit discharge.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Inspection Procedures as described in Part IV.D.3.(c)(6).	<p>The permittee shall conduct inspections, in response to complaints, and shall conduct follow-up inspections to ensure that corrective measures have been implemented by the responsible party.</p> <ul style="list-style-type: none"> <li>• Develop written procedures describing the basis for conduction inspections in response to complaints and conducting follow-up inspections.</li> <li>• Review and update the procedures at least one time annually to address changes and make improvements to the established procedures where applicable.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Inspections in response to complaints as described in Part IV.D.3.(c)(6).	<ul style="list-style-type: none"> <li>• Conduct inspections in response to 100% of complaints each year according to the established procedures.</li> <li>• Conduct follow up inspections in 100% of cases each year where necessary as described in the established procedures.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Conduct follow-up investigations or field screenings when notified that a discharge has been eliminated.	<ul style="list-style-type: none"> <li>• Conduct follow-up investigations or field screening in response to 100% of notifications each year.</li> <li>• Complete the follow-up investigations within five business days, on average.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.

MCM-4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Develop and maintain an ordinance or other regulatory mechanism as described in Part IV.D.4.(a).	Review and update the ordinance or other regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.	X	X	X	X	X	Completed by December of each permit year.
Prohibit discharges as described in Part IV.D.4.(b)(2).	Develop and maintain an ordinance or other regulatory mechanism to prohibit these discharges. Review and update the ordinance or other regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.	X	X	X	X	X	Completed by December of each permit year.
Maintain and implement site plan review procedures that describe which plans will be reviewed as well as when an operator may begin construction as described in Part IV.D.4.(b)(3).	Review and update site plan review procedures at least one time annually to address changes and make improvements to the established procedures where applicable. Implement site plan review procedures for 100% of new construction site plans received each year.	X	X	X	X	X	Completed by December of each permit year.
Implement procedures for inspecting large and small construction projects as described in Part IV.D.4.(b)(4).	Review and update inspection procedures at least one time annually to address changes and make improvements to the established procedures where applicable	X	X	X	X	X	Completed by December of each permit year.
Conduct construction site inspections as described in Part IV.D.4.(b)(4).	Conduct inspections at 80% of active construction sites annually according to the established procedures. Each year, conduct follow up inspections in 100% of cases where necessary as described in the established procedures.	X	X	X	X	X	Completed by December of each permit year.
Develop, implement, and maintain procedures for receipt and consideration of information submitted by the public as described in Part IV.D.4.(b)(5).	Review and update procedures for the receipt and consideration of information submitted by the public at least one time annually to address changes and make improvements to the established procedures where applicable. Maintain one webpage, hotline, or similar method for receipt of information submitted by the public throughout the permit term.	X	X	X	X	X	Completed by December of each permit year.
Conduct training for all the MS4 staff whose primary job duties are related to implementing the construction stormwater program as described in Part IV.D.4.(b)(6). Training may be conducted in person or using self paced training materials such as videos or reading materials.	Conduct a minimum of one training annually for 100% of MS4 staff whose primary job duties are related to implementing the construction stormwater program.	X	X	X	X	X	Completed by December of each permit year.
Maintain a Construction Site inventory as described in Part IV.D.4.(c).	Maintain an annual inventory of 100% of TPDES permitted active public and private construction sites in the small MS4 area, that result in a total land disturbance of one or more acres or that result in a total land disturbance of less than one acre if part of a larger common plan or development or sale. New Levels 3 or 4 small MS4s shall develop the inventory within one year of obtaining their authorization under this general permit.	X	X	X	X	X	Completed by December of each permit year.

MCM-5 POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Develop and maintain an ordinance or other regulatory mechanism as described in Part IV.D.5.(a)(2).	Review and update the ordinance or other regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.	X	X	X	X	X	Completed by December of each permit year.
Document and maintain records of enforcement actions and make them available for review by the TCEQ as described in Part IV.D.5.(b)(1).	Maintain records of 100% of enforcement actions taken each year. Make 100% of enforcement records available to TCEQ for review within 24 hours of request.	X	X	X	X	X	Completed by December of each permit year.
Ensure the long term operation and maintenance of structural stormwater control measures installed as described in Part IV.D.5.(b)(2).	Maintain 100% of stormwater control measures each year where the MS4 operator is responsible for maintenance. Each year, require 100% of the owners or operators of any new development or redeveloped sites to develop and implement a maintenance plan addressing maintenance requirement for any structural control measures installed on site. Require the site owner or operators to maintain documentation onsite of 100% of the maintenance performed and made available for review by the small MS4 operator or TCEQ within 24 hours of the request.	X	X	X	X	X	Completed by December of each permit year.

MCM-6 POLLUTION PREVENTION & GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Permittee-owned Facilities and Control Inventory as described by Part IV.D.6.(b)(1).	Develop and maintain an annual inventory for 100% of the small MS4 owned and operated facilities and controls in the small MS4 area.  Review and update the inventory at least one time annually to address changes or additions to the facilities and controls where applicable.	X	X	X	X	X	Completed by December of each permit year.
Training and Education as described in Part IV.D.6.(b)(2). Training may be conducted in person or using self paced training materials such as videos or reading materials.	Conduct a minimum of one training annually for 100% of employees involved in implementing pollution prevention and good housekeeping practices.  For small MS4s which use only contractors to implement pollution prevention and good housekeeping practices, ensure training of 100% of applicable contract staff is conducted at least one time annually using contract language or another similar method.	X	X	X	X	X	Completed by December of each permit year.
Disposal of Waste Material as described in Part IV.D.6.(b)(3).	Ensure that 100% of waste from the MS4 is disposed of in accordance with 30 TAC Chapters 330 or 335, as applicable each year.	X	X	X	X	X	Completed by December of each permit year.
Contractor Requirements and Oversight as described in Part IV.D.6.(b)(4).	Each year, ensure that 100% of contractors hired by the MS4 to perform maintenance activities on permittee owned facilities is contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures described in Parts IV D.6.(b)(2)-(6).  Provide oversight of 100% of contractor activities to ensure that contractors are using appropriate control measures and SOPs each year.  Oversight procedures must be maintained on-site 100% of the time and made available for review by TCEQ within 24 hours of request.	X	X	X	X	X	Completed by December of each permit year.
Assessment of permittee owned operations as described in Part IV.D.6.(b)(5)a.	Evaluate 100% of O&M activities for their potential to discharge pollutants in stormwater annually including but not limited to: •Road and parking lot maintenance, including such areas as pothole repair, pavement marking, sealing, and re-paving; •Bridge maintenance, including such areas as re-chipping, grinding, and saw cutting; •Cold weather operations, including plowing, sanding, and application of deicing and anti-icing compounds and maintenance of snow disposal areas; and •Right-of-way maintenance, including mowing, herbicide and pesticide application, and planting vegetation.	X	X	X	X	X	Completed by December of each permit year.
Identify pollutants of concern as described in Part IV.D.6.(b)(5)b.	Identify pollutants of concern that could be discharged from all of the O&M activities described in Part IV.D.6.(b)(5)b and maintain a list of 100% of the pollutants identified. Including for example, metals; chlorides; hydrocarbons such as benzene, toluene, ethyl benzene, and xylenes; sediment; and trash.  Review and update the pollutants of concern list at least one time annually to address changes or additions to the O&M activities where applicable.	X	X	X	X	X	Completed by December of each permit year.

MCM-6 POLLUTION PREVENTION & GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Pollution Prevention Measures as described in Part IV.D.6.(b)(5)c.	<p>Develop and implement a set of pollution prevention measures that will reduce the discharge of pollutants in stormwater from the permittee-owned operations. The following two pollution prevention measures shall be implemented:</p> <ul style="list-style-type: none"> <li>•Track 100% of the application of deicing and antiicing compounds in the MS4 area and record the amount of compound used for each application annually.</li> <li>•Use suspended tarps, booms, or vacuums to capture paint, solvents, rust, paint chips and other pollutants during 80% of regular bridge maintenance each year.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Inspection of Pollution Prevention Measures as described in Part IV.D.6.(b)(5)d.	<p>At least one time annually, visually inspect 100% of pollution prevention measures implemented at permittee owned facilities to ensure they are working properly.</p> <p>Develop and maintain written procedures that describe the frequency of inspections and how they will be conducted.</p> <p>Review and update the inspection procedures at least one time annually to address changes or additions to the pollution prevention measures.</p> <p>Maintain a log of 100% of the inspections conducted annually and make the log available for review by the TCEQ within 24 hours of a request.</p>	X	X	X	X	X	Completed by December of each permit year.
Structural Control Maintenance as described by Part IV.D.6.(b)(6).	<p>At least one time annually, perform maintenance of 100% of the structural controls which require maintenance. Maintenance must be consistent with maintaining the effectiveness of the BMP.</p> <p>The permittee shall develop and maintain written procedures that define the frequency of inspections and how they will be conducted.</p> <p>Review and update the maintenance procedures at least one time annually to address changes or additions to the pollution prevention measures.</p>	X	X	X	X	X	Completed by December of each permit year.
Storm Sewer System Operation and Maintenance Program as described by Part IV.D.6.(c)(1)a.	<p>Develop and implement an O&amp;M program to reduce to the MEP the collection of pollutants in catch basins and other surface drainage structures each year. The following two measures shall be implemented:</p> <ul style="list-style-type: none"> <li>•Inspect at least 25% of the small MS4 owned and operated detention basins each year.</li> <li>•Collect and dispose of or recycle used oil and other household hazardous waste (HHW) from the public in at least three events each year.</li> </ul>	X	X	X	X	X	Completed by December of each permit year.



MCM-6 POLLUTION PREVENTION & GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Storm Sewer System Operation and Maintenance Problem Areas as described by Part IV.D.6.(c)(1)b.	Develop a list of 100% of the identified potential problem areas. Identify and prioritize problem areas for increased inspection (for example, areas with recurrent illegal dumping). Review and update the list of potential problem areas at least one time annually to address changes or additions to the list.	X	X	X	X	X	Completed by December of each permit year.
Operation and Maintenance Program to Reduce Discharges of Pollutants from Roads as described by Part IV.D.6.(c)(2).	Implement the following measure: <ul style="list-style-type: none"> <li>A street sweeping and cleaning program to address 75% of the small MS4 area each year and sweeping 100% of the MS4 area at least two times by the end of the permit term.</li> <li>Ensure that trash receptacles, or similar trash capturing devices are provided and maintained in 100% of the areas identified as high trash generating areas within the areas where street sweeping is technically infeasible (such as parks, event spaces, etc.).</li> </ul>	X	X	X	X	X	Completed by December of each permit year.
Mapping of Facilities as described by Part IV.D.6.(c)(3).	On a map of the area regulated under this general permit, identify where 100% of the permittee-owned and operated facilities and stormwater controls are located.  Review and update the map at least one time annually to address changes or additions to the facilities and controls.	X	X	X	X	X	Completed by December of each permit year.
Assessment of Facilities' Pollutant Discharge Potential as described by Part IV.D.6.(c)(4)a.	Review 100% of the facilities identified in Part IV.D.6.(b) at least one time per permit term for their potential to discharge pollutants into stormwater.	X	X	X	X	X	Completed by December of each permit year.
Identification of high priority facilities as described by Part IV.D.6.(c)(4)b.	Based on the assessment in Part IV.D.6.(c)(4)a., the permittee shall identify as high priority those facilities that have a high potential to generate stormwater pollutants. A list of 100% of the identified facilities must be developed and maintained each year.  Review and update the list of high priority facilities at least one time annually to address changes or additions to the facilities.	X	X	X	X	X	Completed by December of each permit year.
Documentation of Assessment Results as described by Part IV.D.6.(c)(4)c. The documentation must include: <ul style="list-style-type: none"> <li>the results of the permittee's initial assessment, and</li> <li>any identified deficiencies and corrective actions taken.</li> </ul>	Document the results of all the assessments and maintain copies of 100% of the site evaluation checklists used to conduct the assessments each year.	X	X	X	X	X	Completed by December of each permit year.
Development of Facility Specific SOPs as described by Part IV.D.6.(c)(5).	Develop facility-specific stormwater management SOPs for 100% of the MS4 owned and operated facilities. A description of 100% of the BMPs developed to comply with Part IV.D.6.(c)(6) must be included in each facility-specific SOP.  Review and update the facility-specific SOPs at least one time annually to address changes or additions to the facilities.  If requested, SOPs must be made available to TCEQ within 24 hours of the request for review.	X	X	X	X	X	Completed by December of each permit year.

MCM-6 POLLUTION PREVENTION & GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS							
Activity/BMP	Measurable Goals	Implementation Year					Completed By (Month and Year) or Frequency of Action
		1	2	3	4	5	
Stormwater Controls for High Priority Facilities, General Good Housekeeping as described by Part IV.D.6.(c)(6)a.	Shelter from exposure to stormwater 100% of material with a potential to contribute to stormwater pollution each year.	X	X	X	X	X	Completed by December of each permit year.
Stormwater Controls for High Priority Facilities, Deicing and anti-icing material storage as described by Part IV.D.6.(c)(6)b.	Ensure that 100% of stormwater runoff from storage piles of salt and other de-icing and anti-icing materials is not discharged each year	X	X	X	X	X	Completed by December of each permit year.
Stormwater Controls for High Priority Facilities, Fueling and vehicle maintenance as described by Part IV.D.6.(c)(6)c.	Develop and implement SOPs that address spill prevention and spill control at 100% of permittee-owned and operated vehicle fueling, vehicle maintenance, and bulk fuel delivery facilities each year.  Review and update the facility specific SOPs at least one time annually to address changes or additions to the facilities.	X	X	X	X	X	Completed by December of each permit year.
Stormwater Controls for High Priority Facilities, Equipment and vehicle washing as described by Part IV.D.6.(c)(6)d.	Develop and implement SOPs that address equipment and vehicle washing activities at 100% of the permittee-owned and operated facilities where washing occurs.  To ensure that wastewater is not discharged under this general permit, the permittee's SOP must include one or more of the following: <ul style="list-style-type: none"> <li>installing a vehicle wash reclaim system,</li> <li>capturing and hauling the wastewater for proper disposal,</li> <li>connecting to sanitary sewer (where applicable and approved by local authorities),</li> <li>ceasing the washing activity, or</li> <li>applying for and obtaining a separate TPDES permit.</li> </ul> Review and update the facility specific SOPs at least one time annually to address changes or additions to the facilities.	X	X	X	X	X	Completed by December of each permit year.
Inspections as described by Part IV.D.6.(c)(7).	Develop and implement an inspection program, which at a minimum must include inspections of 100% of high priority permittee-owned facilities one time per year.  The results of 100% of the inspections and observations must be documented and available for review by the TCEQ each year.	X	X	X	X	X	Completed by December of each permit year.