



***Stormwater Management Program***

**In Accordance With:**

**TPDES General Permit  
TXR040000**

**Fort Bend County  
Fort Bend County Drainage District**

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# Table of Contents

<b>Section</b>	<b>Page</b>
<b>Introduction</b>	<b>3</b>
<b>Minimum Control Measures (MCMs)</b>	
<b>1: Public Education, Outreach, and Involvement</b>	<b>4 - 7</b>
1.A. Permit Requirements	
1.B. Program Elements	
1.C. Best Management Practices and Measurable Goals	
1.D. BMP Implementation Schedule & Responsible Party	
<b>2: Illicit Discharge Detection and Elimination</b>	<b>8 - 10</b>
2.A. Permit Requirements	
2.B. Program Elements	
2.C. Best Management Practices and Measurable Goals	
2.D. BMP Implementation Schedule & Responsible Party	
<b>3: Construction Site Stormwater Runoff Control</b>	<b>11 - 13</b>
3.A. Permit Requirements	
3.B. Program Elements	
3.C. Best Management Practices and Measurable Goals	
3.D. BMP Implementation Schedule & Responsible Party	
<b>4: Post-Construction Stormwater Management in New Development/Redevelopment</b>	<b>14 - 15</b>
4.A. Permit Requirements	
4.B. Program Elements	
4.C. Best Management Practices and Measurable Goals	
4.D. BMP Implementation Schedule & Responsible Party	
<b>5: Pollution Prevention and Good Housekeeping for Municipal Operations</b>	<b>16 - 19</b>
5.A. Permit Requirements	
5.B. Program Elements	
5.C. Best Management Practices and Measurable Goals	
5.D. BMP Implementation Schedule & Responsible Party	
<b>6: Industrial Stormwater Sources</b>	<b>20</b>
6.A. Permit Requirements	
6.B. Program Elements	
<b>7: Municipal Construction Activities</b>	<b>21</b>
7.A. Permit Requirements	
7.B. Program Elements	
<b>Impaired Water Bodies</b>	<b>22</b>
<b>8: Impaired Water Bodies with Approved TMDLs</b>	<b>23 - 25</b>
<b>9: Impaired Water Bodies without Approved TMDLs</b>	<b>26 - 28</b>

**Introduction:**

This Stormwater Management Program (SWMP) has been developed in accordance with TPDES General Permit TXR040000 (effective date December 13, 2013) and is being implemented and enforced to reduce the discharge of pollutants from the small MS4(s) to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act (CWA) and the Texas Water Code (TWC). All permittees listed below participated in the development and implementation of this SWMP. Non-traditional MS4s included in the coalition implement the program to the MEP and rely on adjacent MS4 operators and the TCEQ Field Operations Support Division for enforcement authority according to Part III.A.3(b) of TPDES General Permit TXR040000. This is a shared SWMP for the Fort Bend County Stormwater Quality Coalition which consists of the following entities:

<b>Entity</b>	<b>Small MS4 Level</b>	<b>Permit Number</b>
Fort Bend County	Non-traditional MS4 (Level 2)	TXR040045
Fort Bend County Drainage District	Non-traditional MS4 (Level 2)	TXR040383

## **SECTION 1: Public Education, Outreach, and Involvement**

### **1.A. Permit Requirements**

*All permittees shall develop, implement, and maintain a comprehensive stormwater education and outreach program to educate public employees, businesses, and the general public of hazards associated with the illegal discharges and improper disposal of waste and about the impact that stormwater discharges can have on local waterways, as well as the steps that the public can take to reduce pollutants in stormwater.*

*All permittees shall involve the public, and, at minimum, comply with any state and local public notice requirements in the planning and implementation activities related to developing and implementing the SWMP, except that correctional facilities are not required to implement this portion of the MCM.*

### **1.B. Program Elements**

The existing permittees have assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

- a. Goals and Objectives:** The coalition has identified high-priority issues that can be addressed using the BMPs developed for Public Education, Outreach, and Involvement and developed the following goals: increase construction site operators' awareness of stormwater pollution; increase local residents' awareness of stormwater pollution; and encourage public involvement in the implementation of the stormwater management program.
- b. Target Audiences:** The coalition has identified the following target audiences:
  - residents
  - visitors
  - public service employees (Stormwater Quality Coalition Employees)
  - businesses
  - commercial and industrial facilities
  - construction site personnel
- c. Education Materials:** The coalition plans to develop and utilize flyers/brochures, signage in select locations, public service announcements, storm drain marking, and websites.
- d. Distribution of Materials:** The coalition identified cost effective and practical methods for distribution of public education materials during the first permit term. Flyers and brochures are made available at public locations including: county offices, libraries, district offices, etc. Public service announcements are included on the stormwater quality website. Storm drain marking is accomplished by utilizing existing permittee employees.

The activities and materials utilized to fulfill the Public Education, Outreach, and Involvement MCM will be documented. The documentation of these records will be summarized in an annual report and will be specific enough to demonstrate compliance with the existing permit

requirements. Included in each BMP is a description of what records will be maintained and reported in the annual reports.

### **1.C. Best Management Practices and Measurable Goals**

#### **BMP Descriptions**

##### **Public Education and Outreach**

- a. Flyers and Brochures:** Distribution or posting of flyers and brochures for the purpose of educating the public on stormwater impacts and ways they can minimize stormwater pollution.
- b. Develop Materials for Local Schools/Libraries:** Development of educational materials for school age children in order to foster an early age respect for water quality.
- c. Education of Construction Site Personnel:** Development of guidance materials/brochures/webpage for construction site personnel on the proper installation and maintenance of erosion and sediment controls, and other construction site runoff issues.
- d. Public Service Announcements:** Develop and make available PSAs on the impacts of stormwater pollution and steps that residents can take to improve water quality.
- e. Stormwater Quality Website:** Develop and maintain a stormwater quality website. The website will include stormwater education per the TCEQ general permit guidelines and provide specific information regarding the TPDES Phase II program; including links to other local, state and national stormwater websites. In addition, the website will provide viewers with instructions on how to report stormwater quality concerns in their area.
- f. Public Notice:** Comply with all state and local public notice requirements regarding permit application/renewal process and public meetings associated with the stormwater quality program.
- g. SWMP Availability:** Make the SWMP available to the public on the stormwater quality website. Website address will be included on flyers and brochures distributed by the coalition.

##### **Public Involvement**

- h. SWMP Committee:** Formation/maintenance of a committee on SWMP program development and implementation.
- i. Public Meetings:** Conduct public meetings to allow citizens to have input in the implementation of the program and provide opportunities for citizens to volunteer to participate in the implementation of the SWMP.
- j. Stormwater Hotline:** Advertise appropriate phone numbers for citizens to report information regarding illicit discharges, illegal dumping, construction site discharges, etc.

**BMP Measurable Goals & Method of Measurement**

<b>BMP</b>	<b>Method of Measurement</b>	<b>Measurable Goals/Interim Milestones</b>	<b>Frequency of Action</b>
<b>Public Education and Outreach</b>			
Flyers and Brochures	Estimated quantities of materials distributed or posted	Distribute or post at least 2 types of available brochures per year Interim Milestone: N/A	Annually
Develop Materials for Local Schools/Libraries	Estimated quantities of education materials distributed	Ensure at least 1 type of material is distributed annually for local schools and/or public libraries Interim Milestone: N/A	Annually
Education of Construction Site Personnel	Estimated quantities of educational materials or guidance documents distributed	Make available to construction site personnel at least 1 guidance document, brochure, or webpage on construction site runoff issues each year Interim Milestone: N/A	Annually
Public Service Announcements	Number of different PSA's being aired by local media	Provide at least 1 PSA to be aired by local media, public access channel, or website at least once per permit term Interim Milestone: N/A	Once per permit term
Stormwater Quality Website	Number of website updates and estimated number of hits	Update website at least once per permit term Interim Milestone: N/A	Once per permit term
Public Notice	Type/date of event requiring public notice	Comply with state and local public notice requirements for applicable events Interim Milestone: N/A	As needed
SWMP Availability	Methods of making SWMP available	Make SWMP available to the public annually Interim Milestone: N/A	Annually
<b>Public Involvement</b>			
SWMP Committee	Number of meetings held and associated sign-in sheets	Conduct at least 2 SWMP Committee meetings per year and encourage local groups to participate at least once per permit term Interim Milestone: N/A	Once per permit term
Public Meetings	Number of meetings held and associated sign-in sheets	Conduct public meeting at least once per permit term Interim Milestone: N/A	Once per permit term
Stormwater Hotline	Estimated number of phone calls received	Distribute at least 2 types of materials per year that informs the public about reporting stormwater quality concerns Interim Milestone: N/A	Annually

**1.D. BMP Implementation Schedule & Responsible Party**

<b>BMP</b>	<b>Fort Bend County</b>	<b>Fort Bend County Drainage District</b>	<b>Full Implementation By:</b>
Flyers and Brochures	√	√	Continued Full Implementation
Develop Materials for Local Schools/Libraries	√	√	Continued Full Implementation
Education of Construction Site Personnel	√	√	Continued Full Implementation
Public Service Announcements	√	√	Continued Full Implementation
Stormwater Quality Website	√	√	Continued Full Implementation
Public Notice	√	√	Continued Full Implementation
SWMP Availability	√	√	December 2015
SWMP Committee	√	√	Continued Full Implementation
Public Meetings	√	√	Continued Full Implementation
Stormwater Hotline	√	√	Continued Full Implementation

## **SECTION 2: Illicit Discharge Detection and Elimination**

### **2.A. Permit Requirements:**

*All permittees shall develop, implement, and enforce a program to detect, investigate, and eliminate illicit discharges into the small MS4. The program must include a plan to detect and address non-stormwater discharges, including illegal dumping to the MS4 system.*

### **2.B. Program Elements:**

The existing permittees have assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

- a. Description of Program:** The coalition will utilize their daily field staff, reports from citizens, and a concentrated dry weather screening program to identify illicit discharges within the MS4. Once a discharge has been identified, field technicians will investigate the discharge utilizing colorimetric field test kits to identify its nature and trace the discharge to its origin. Once the responsible party is identified, coalition entities will utilize local regulatory enforcement mechanisms to eliminate illicit discharges originating from private parties and/or coordinate with the appropriate municipal departments to make the needed repairs.
- b. MS4 Map:** During the first permit term, the coalition developed a MS4 outfall map which identifies the location of all outfalls operated by the MS4 that discharge into waters of the U.S. and identifies the location and name of all surface waters receiving discharges from the MS4 outfalls.
- c. Development of Required Procedures:** The coalition has developed BMPs to address the development of the required procedures regarding training MS4 field staff, tracing illicit discharges, removing the source(s) of illicit discharges, responding to illicit discharges/spills, inspection response to complaints, and facilitating public reporting. The established BMPs will be fully implemented within five (5) years from the permit issuance date.
- d. Allowable Non-Stormwater Discharges:** Non-stormwater flows listed in Part II.C of TPDES General Permit TXR040000 will not be considered by the permittee as an illicit discharge unless the permittee identifies the flow as a significant source of pollutants to the small MS4.

### **2.C. Best Management Practices and Measurable Goals:**

- a. MS4 Outfall Map:** Develop/Maintain an updated map of the MS4 indicating the location of stormwater outfalls that discharge to waters of the U.S. and the location and name of all surface waters receiving discharge from the MS4.
- b. MS4 Outfall Inspections:** Utilize reports from MS4 field staff, citizens, and a concentrated dry weather screening program to inspect outfalls for illicit discharges.



- c. **Regulatory Mechanisms:** With the permittees being non-traditional MS4s, the permittees will rely on adjacent MS4 operators and the TCEQ Field Operations Support Division for enforcement authority according to Part III.A.3(b) of the TPDES General Permit TXR040000.
- d. **MS4 Field Staff Training:** Conduct training for MS4 field staff to provide information regarding the identification of illicit discharges and proper reporting.
- e. **IDDE Procedures:** Develop procedures for tracing/removing the source of an illicit discharge, responding to illicit discharges/spills, inspections in response to complaints, and to prevent/correct leaking on-site sewage disposal systems.
- f. **Public Reporting:** Develop media to facilitate public reporting of illicit discharges. Options may include stormwater hotlines, websites, and social media pages.

**BMP Measurable Goals & Method of Measurement**

<b>BMP</b>	<b>Method of Measurement</b>	<b>Measurable Goals/Interim Milestones</b>	<b>Frequency of Action</b>
MS4 Outfall Map	Total number of outfalls mapped	Conduct 1 review of the map per permit term. Map outfalls in new development areas on an as needed basis Interim Milestone: N/A	Once per permit term
MS4 Outfall Inspections	Percentage of outfalls inspected	Inspect approximately 20% of the identified outfalls per year Interim Milestone: N/A	Annually
Regulatory Mechanisms	Number of enforcement actions	Report identified illicit discharges to the appropriate adjacent MS4 or TCEQ Field Operations Support Division Interim Milestone: N/A	As needed
MS4 Field Staff Training	Number of training sessions conducted	Conduct training for MS4 field staff at least once per permit term Interim Milestone: N/A	Once per permit term
IDDE Procedures	Number of procedures/guidance documents developed	Develop and maintain appropriate IDDE procedures Interim Milestone: N/A	Once per permit term
Public Reporting	Number of reports received	Distribute at least 2 types of media/materials to help facilitate public reporting of illicit discharges Interim Milestone: N/A	Annually

**2.D. BMP Implementation Schedule & Responsible Party**

<b>BMP</b>	<b>Fort Bend County</b>	<b>Fort Bend County Drainage District</b>	<b>Full Implementation By:</b>
MS4 Outfall Map	√	√	Continued Full Implementation
MS4 Outfall Inspections	√	√	Continued Full Implementation
Regulatory Mechanisms	√	√	December 2015
MS4 Field Staff Training	√	√	December 2016
IDDE Procedures	√	√	December 2017
Public Reporting	√	√	December 2015

## **SECTION 3: Construction Site Stormwater Runoff Control**

### **3.A. Permit Requirements:**

*All permittees shall develop, implement, and enforce a program requiring operators of small and large construction activities, as defined in Part I of this general permit, to select, install, implement, and maintain stormwater control measures that prevent illicit discharges to the MEP. The program must include the development and implementation of an ordinance or other regulatory mechanism, as well as sanctions to ensure compliance to the extent allowable under state, federal, and local law, to require erosion and sediment control.*

### **3.B. Program Elements:**

The existing permittees have assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

- a. Description of Program:** The permittees are non-traditional MS4s and lack adequate legal authority to inspect private construction sites, therefore the MS4s will be limited to conducting inspections of only the sites operated by the permittees. Violations related to construction site stormwater runoff identified on private sites will be reported to the appropriate adjacent MS4 or TCEQ Field Operations Support Division.
- b. Regulatory Mechanisms:** With the permittees being non-traditional MS4s, the permittees will rely on adjacent MS4 operators and the TCEQ Field Operations Support Division for enforcement authority according to Part III.A.3(b) of the TPDES General Permit TXR040000. Within (2) two years from the permit issuance date, the permittees will review and revise (if necessary) construction guidance documents to include procedures for permittee owned projects that:
  - i.** require soil stabilization measures, and implementation of BMPs to control pollutants from equipment and vehicle washing and other wash waters;
  - ii.** require operators to minimize exposure for stormwater discharges related to building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials;
  - iii.** require operators to implement BMPs that minimize the discharge of pollutants from spills and leaks; and
  - iv.** prohibits illicit discharges such as wash out wastewater, fuels, oils, soaps, solvents, and dewatering activities.

All coalition owned construction sites resulting in a land disturbance of greater than or equal to one acre or are part of a larger common plan of development or sale will comply with the TCEQ Construction General Permit TXR150000. Each required site will incorporate a Stormwater Pollution Prevention Plan (SWPPP) including adequate sediment and erosion controls.

**3.C. Best Management Practices and Measurable Goals:**

- a. Construction Site Plan Review:** Implement a construction site plan review program that focuses on compliance with the Construction General Permit for permittee owned construction sites and develop associated guidance materials.
- b. Construction Site Inspection/Enforcement:** Conduct inspections of permittee owned construction sites/associated control measures to ensure compliance with the CGP.
- c. Construction Site Notice Posting:** Post an appropriate site notice or NOI in a publicly accessible location for each Coalition construction project subject to the TCEQ Construction General Permit.
- d. Public Reporting:** Develop and implement procedures for receipt and consideration of information submitted by the public regarding construction site stormwater runoff.
- e. MS4 Staff Training:** Develop and implement procedures for MS4 staff training regarding construction site stormwater runoff control.

**BMP Measurable Goals & Method of Measurement**

<b>BMP</b>	<b>Method of Measurement</b>	<b>Measurable Goals/Interim Milestones</b>	<b>Frequency of Action</b>
Construction Site Plan Review	Number of plans reviewed	Review applicable permittee owned construction site plans for compliance with the CGP Interim Milestone: N/A	Annually
Construction Site Inspection/ Enforcement	Number of construction site inspections	Inspect all permittee owned construction sites for compliance with the CGP Interim Milestone: N/A	Annually
Construction Site Notice Posting	Number of applicable coalition owned construction sites	Post an appropriate site notice at each Coalition construction site subject to the TPDES Construction General Permit TXR150000 Interim Milestone: N/A	As needed
Public Reporting	Number of reports received	Develop procedures for receipt and consideration of information submitted by the public Interim Milestone: N/A	Once per permit term
MS4 Staff Training	Number of training sessions conducted	Conduct training for MS4 field staff at least once per permit term Interim Milestone: N/A	Once per permit term

**3.D. BMP Implementation Schedule & Responsible Party**

<b>BMP</b>	<b>Fort Bend County</b>	<b>Fort Bend County Drainage District</b>	<b>Full Implementation By:</b>
Construction Site Plan Review	√	√	Continued Full Implementation
Construction Site Inspection/ Enforcement	√	√	Continued Full Implementation
Construction Site Notice Posting	√	√	Continued Full Implementation
Public Reporting	√	√	December 2016
MS4 Staff Training	√	√	December 2017

## **SECTION 4: Post-Construction Stormwater Management in New Development/Redevelopment**

### **4.A. Permit Requirements:**

*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 redeveloped 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 sites. The program may utilize an offsite mitigation and payment in lieu of components to address this requirement.*

### **4.B. Program Elements:**

The existing permittees have assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

- a. Description of Program:** Being non-traditional MS4s, the permittees are limited to only conducting inspections of the controls owned and operated by the MS4s. The permittee includes/maintains structural and/or non-structural controls for post-construction stormwater management in new development and redevelopment on permittee owned sites. The permittees document and maintain records of all associated enforcement and maintenance activities.
- b. Regulatory Mechanisms:** With the permittees being non-traditional MS4s, the permittees will rely on adjacent MS4 operators and the TCEQ Field Operations Support Division for enforcement authority according to Part III.A.3(b) of the TPDES General Permit TXR040000. Within (2) two years from the permit issuance date, the permittees will review and revise (if necessary) post-construction guidance documents to include procedures for permittee owned projects that:
  - i.** require owners or operators of new development and redeveloped sites to design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and that protects water quality; and
  - ii.** require long-term operation and maintenance of post construction stormwater control measures.

### **4.C. Best Management Practices and Measurable Goals:**

- a. Development Project Plan Review:** Review development plans for permittee owned sites to ensure compliance with local post-construction runoff guidelines and inclusion of appropriate permanent stormwater quality controls. Ensure that contracted operators hired by the permittee design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and that protects water quality.
- b. Inspection of Post Construction Control Measures:** Conduct inspections of post construction control measures owned and operated by the MS4. Document and maintain all associated inspection/maintenance records.

**BMP Measurable Goals & Method of Measurement**

<b>BMP</b>	<b>Method of Measurement</b>	<b>Measurable Goals/Interim Milestones</b>	<b>Frequency of Action</b>
Development Project Plan Review	Number of plans reviewed	Review construction plans for the inclusion of appropriate post-construction controls for permittee owned projects Interim Milestone: N/A	Annually
Inspection of Post Construction Control Measures	Number of inspections conducted on permittee owned and operated controls	Conduct at least 1 inspection of control measures per permit term Interim Milestone: N/A	Once per permit term

**4.D. BMP Implementation Schedule & Responsible Party**

<b>BMP</b>	<b>Fort Bend County</b>	<b>Fort Bend County Drainage District</b>	<b>Full Implementation By:</b>
Development Project Plan Review	√	√	Continued Full Implementation
Inspection of Post Construction Control Measures	√	√	Continued Full Implementation

## **SECTION 5: Pollution Prevention and Good Housekeeping for Municipal Operations**

### **5.A. Permit Requirements:**

*All permittees shall develop and implement an operation and maintenance program, including an employee training component that has the ultimate goal of preventing or reducing pollutant runoff from municipal activities and municipally owned areas including but not limited to park and open space maintenance; street, road, or highway maintenance; fleet and building maintenance; stormwater system maintenance; new construction and land disturbances; municipal parking lots; vehicle and equipment maintenance and storage yards; waste transfer stations; and salt/sand storage locations.*

### **5.B. Program Elements:**

The existing permittees have assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

The coalition currently has an operation and maintenance program, including an employee training component, to reduce/prevent pollution from municipal activities and municipally owned areas included but not limited to park and open space maintenance; street, road, or highway maintenance; fleet and building maintenance; stormwater system maintenance; new construction and land disturbances; municipal parking lots; vehicle and equipment maintenance and storage yards; and salt/sand storage locations. During the second permit term, the coalition plans to strengthen the existing program elements.

The Coalition plans to implement good housekeeping measures and non-structural BMPs that reduce the discharge of pollutants from the following municipal operations.

- park and open space maintenance
- street, road or highway maintenance
- fleet and building maintenance
- storm sewer system maintenance
- new construction & land disturbances
- municipal parking lots
- vehicle/equipment maintenance and storage yards
- salt and sand storage locations

Within the regulated area, the Coalition does not operate or maintain the following municipal operations.

- waste transfer stations

All Coalition employees responsible for municipal operations will attend training programs that focus on procedures for reducing the discharge of pollutants from municipal operations. The Coalition will inspect structural control measures to ensure adequate long term maintenance.



### 5.C. Best Management Practices and Measurable Goals:

- a. **MS4 Facility Inventory:** Develop and maintain an inventory of the applicable MS4's facilities and stormwater controls within the regulated area.
- b. **Employee Training Program:** Develop a training program to target all employees responsible for operations subject to the prevention/good housekeeping program.
- c. **Disposal of Waste:** Properly dispose of waste materials that are removed as a result of maintenance activities; such as floatables, dredge spoils, and or accumulated sediments.
- d. **Contractor Oversight Procedures:** Develop procedures that contractually require contractors hired by the permittee to perform maintenance activities on permittee-owned facilities to comply with all stormwater control measures, good housekeeping practices, and facility specific stormwater management operating procedures.
- e. **Operation and Maintenance Activities:** Evaluate O & M activities for their potential to discharge pollutants to stormwater. Develop general pollution prevention plans that identify potential pollutants of concern and implement appropriate measures to reduce the discharge of pollutants from O & M activities. Conduct inspections at MS4 facilities and maintain associated records.
- f. **MS4 Structural Controls:** Implement and maintain appropriate structural controls at applicable MS4 facilities.
- g. **Vehicle and Equipment Maintenance:** Conduct routine maintenance of permittee owned vehicles according to manufacturer's specifications.
- h. **Litter/Garbage Collection:** Conduct garbage and/or litter collection in order to reduce floatable material discharges to stormwater.
- i. **Maintain Municipally Owned Construction Sites:** Conduct maintenance activities necessary to properly maintain erosion and sediment controls at municipally owned construction sites based on needs identified during construction site inspections.
- j. **Permittee Parking Lots:** Inspect and maintain municipal parking lots.

**BMP Measurable Goals & Method of Measurement**

<b>BMP</b>	<b>Method of Measurement</b>	<b>Measurable Goals/Interim Milestones</b>	<b>Frequency of Action</b>
MS4 Facility Inventory	Facility inventory and associated controls	Develop and maintain MS4 facility inventory list and stormwater controls within the regulated area Interim Milestone: N/A	Once per permit term
Employee Training Program	Number of training sessions conducted	Conduct at least 1 training session per permit term Interim Milestone: N/A	Once per permit term
Disposal of Waste	Documentation regarding the disposal procedures for collected dredge spoil, accumulated sediments and floatables	Properly dispose of waste materials on a routine basis and maintain documentation regarding disposal procedures Interim Milestone: N/A	Annually
Contractor Oversight Procedures	Development of procedures	Develop contractor oversight procedures and conduct a review of the procedures once per permit term Interim Milestone: N/A	Once per permit term
Operation and Maintenance Activities	Number of general pollution prevention plans developed	Inspect municipal facilities at least once per permit term Interim Milestone: N/A	Once per permit term
MS4 Structural Controls	Inventory of MS4 structural controls	Inspect structural controls at least once per year Interim Milestone: N/A	Annually
Vehicle and Equipment Maintenance	Total number of vehicles/equipment operated by MS4	Conduct routine maintenance and repairs on permittee owned equipment Interim Milestone: N/A	As needed
Litter/Garbage Collection	Estimated volume of litter/garbage removed	Conduct litter/garbage collection at least once per year within the regulated area Interim Milestone: N/A	Annually
Maintain Municipally Owned Construction Sites	Number of permittee owned construction sites	Inspect and maintain permittee owned construction sites as required by the TCEQ Construction General Permit Interim Milestone: N/A	Annually
Permittee Parking Lots	Number of parking lot inspections	Inspect/maintain permittee parking areas at least once per year Interim Milestone: N/A	Annually

**5.D. BMP Implementation Schedule & Responsible Party**

<b>BMP</b>	<b>Fort Bend County</b>	<b>Fort Bend County Drainage District</b>	<b>Full Implementation By:</b>
MS4 Facility Inventory	√	√	December 2015
Employee Training Program	√	√	December 2017
Disposal of Waste	√	√	Continued Full Implementation
Contractor Oversight Procedures	√	√	December 2017
Operation and Maintenance Activities	√	√	December 2017
MS4 Structural Controls	√	√	December 2017
Vehicle and Equipment Maintenance	√	√	Continued Full Implementation
Litter/Garbage Collection	√	√	Continued Full Implementation
Maintain Municipally Owned Construction Sites	√	√	Continued Full Implementation
Permittee Parking Lots	√	√	Continued Full Implementation

## **SECTION 6: Industrial Stormwater Sources**

### **6.A. Permit Requirements:**

*Permittees who operate level 4 small MS4s shall identify and control pollutants in stormwater discharges to the small MS4 from permittee's landfills, other treatment, storage, or disposal facilities for municipal waste (for example, transfer stations and incinerators); hazardous waste treatment, storage, disposal and recovery facilities and facilities that are subject to Emergency Planning and Community Right-to-Know Act (EPCRA) Title III, Section 313; and any other industrial or commercial discharge the permittee determines are contributing a substantial pollutant loading to the small MS4. The program must include priorities and procedures for inspections and for implementing control measures for such discharges.*

### **6.B. Program Elements:**

**N/A – only applies to Level 4 Small MS4s**

## **SECTION 7: Municipal Construction Activities**

### **7.A. Permit Requirements:**

*The development of this MCM for construction activities, where the small MS4 is the site operator, is optional and provides an alternative to the MS4 operator seeking coverage under TPDES CGP, TXR150000 for each construction activity. Permittees that choose to develop this measure will be authorized to discharge stormwater and certain non-stormwater from construction activities where the MS4 operator meets the definition of a construction site operator in Part I of this general permit. When developing this measure, permittees are required to meet all requirements of, and be consistent with, applicable effluent limitation guidelines for the Construction and Development industry (40 CFR Part 450), TPDES CGP TXR150000, and Part III.B.3 of this permit. The authorization to discharge under this MCM is limited to the regulated area, such as the portion of the small MS4 located within an UA or the area designated by TCEQ as requiring coverage. However, an MS4 operator may also utilize this MCM over additional portions of their small MS4 that are also in compliance with all of the MCMs listed in this general permit. This MCM must be developed as a part of the SWMP that is submitted with the NOI for permit coverage. If this MCM is developed after submitting the initial NOI, a NOC must be submitted notifying the executive director of this change, and identifying the geographical area or boundary where the activities will be conducted under the provisions of this general permit. Utilization of this MCM does not preclude a small MS4 from obtaining coverage under the TPDES CGP, TXR150000, or under an individual TPDES permit.*

### **7.B. Program Elements:**

The permittees have elected **NOT** to utilize the optional 7<sup>th</sup> MCM.

**Impaired Water Bodies**

The coalition has assessed and identified impaired water bodies that receive MS4 discharges and has developed targeted control measures accordingly. For MS4 discharges to water quality impaired water bodies **with** an approved TMDL, the coalition will implement program elements as described in Section 8 of the SWMP. For MS4 discharges to water quality impaired water bodies **without** an approved TMDL, the coalition will implement program elements as described in Section 9 of the SWMP. If during the course of the permit term a TMDL is developed and approved for a stream segment that did not have an existing TMDL, the coalition will begin implementation of the Section 8 program elements for the MS4 discharges to that water body. The following table includes a list of stream segments, current 303(d) list/TMDL status, pollutant of concern, and associated water quality benchmarks.

**Benchmark(s) for Impaired Water Bodies by Stream Segment:**

TCEQ Stream Segments	303(d) List/TMDL Status	Parameter(s)	Benchmark(s)/Waste Load Allocation	MS4(s) that Discharge
Upper Oyster Creek -1245	Approved TMDL I-Plan	bacteria; dissolved oxygen	Bacteria – 73% reduction; Dissolved Oxygen – N/A	Fort Bend County; Fort Bend County DD

## **SECTION 8: Impaired Water Bodies with Approved TMDLs**

### **8.A. Permit Requirements:**

*Discharges of the pollutant(s) of concern to impaired water bodies for which there is a TCEQ and EPA approved total maximum daily load (TMDL) are not eligible for this general permit unless they are consistent with the approved TMDL. A water body is impaired for purposes of the permit if it has been identified, pursuant to the latest TCEQ and EPA approved CWA §303(d) list, as not meeting Texas Surface Water Quality Standards.*

### **8.B. Program Elements:**

The coalition has assessed the water bodies receiving storm water discharges from coalition MS4s, and developed targeted elements in order to comply with existing TMDLs and address the pollutant(s) of concern.

- a. Targeted Controls:** The coalition will utilize existing and new best management practices to reduce the discharge of pollutants to impaired water bodies. The targeted controls include compliance with existing TMDL implementation plans, activities related to sanitary sewer systems, on-site sewer facilities, illicit discharges/dumping, animal sources, and residential education programs.
- b. Measurable Goals:** The coalition has developed measurable goals and implementation schedules for all best management practices included for each targeted control listed in this section of the SWMP. The measurable goals and implementation schedules are included in the sections below.
- c. Identification of Benchmarks:** The benchmark for each pollutant(s) of concern for water bodies with TMDLs are listed in the table included in the introduction portion for this section of the SWMP. The benchmarks were selected based on associated waste load allocation(s) for permitted MS4 stormwater sources as identified in TMDL documents and/or implementation plans.
- d. Assessment of Progress:** The coalition will assess progress in achieving benchmarks and determining the effectiveness of BMPs by evaluating program implementation measures. The following indicators will be utilized to assess progress towards the benchmark(s): the number of illicit discharge sources identified or eliminated, number of public education opportunities conducted, reductions in sanitary sewer overflows (SSOs) and/or sanitary sewer inflow and infiltration through the completion of rehabilitation projects, and results of dry weather screening activities.

### **8.C. Best Management Practices and Measurable Goals for Targeted Controls:**

- a. TMDL I-Plans:** Comply with existing implementation plans for discharges to impaired water bodies for which there is a TCEQ and EPA approved TMDL.
- b. Failing On-Site Sewer Systems:** Identification of failing on-site sewer systems through complaints and/or visual inspections of the storm sewer system. Identified discharges from failing on-site sewer systems will be addressed as illicit discharges to the MS4 through the operator's legal authority.

- c. **Promote Proper Maintenance of On-Site Sewer Systems:** Develop media to facilitate proper maintenance of on-site sewer systems. Educational materials may include brochures, websites, and/or social media pages.
- d. **MS4 Outfall Inspections:** Utilize reports from MS4 field staff, citizens, and a concentrated dry weather screening program to inspect outfalls for illicit discharges.
- e. **Public Reporting:** Develop media targeting the pollutant(s) of concern to facilitate public reporting sanitary sewer overflows, failing on-site sewer systems, illicit discharges and/or other pollutant sources. Educational materials may include stormwater hotlines, brochures, websites, and/or social media pages.
- f. **Pet Waste Management:** Develop media to facilitate and promote proper pet waste management practices. Educational materials may include flyers/brochures, websites, and/or social media pages.
- g. **Animal Shelters, Zoos and/or Horse Stables:** Develop pollution prevention guidelines for municipally owned animal shelters, zoos and/or horse stables. Conduct employee training and implement control measures focused on the reduction of pollutant(s) of concern from municipally owned animal shelters, zoos and/or horse stables.
- h. **Residential Education for Bacterial Sources:** Develop media to facilitate public education for bacterial sources including residential sources, proper disposal of fats, oils and greases, and decorative ponds. Educational materials may include flyers/brochures, websites, and/or social media pages.



**BMP Measurable Goals & Recordkeeping**

<b>BMP</b>	<b>Method of Measurement</b>	<b>Measurable Goals/Interim Milestones</b>	<b>Frequency of Action</b>
TMDL I-Plans	Compliance with Implementation Plan	Conduct annual compliance evaluation Interim Milestone: N/A	Annually
Failing On-Site Sewer Systems	Number of failing on-site sewer systems identified and the number of associated discharges eliminated	Conduct inspections and enforcement actions as appropriate for identified discharges associated with failing on-site sewer systems Interim Milestone: N/A	Annually
Promote Proper Maintenance of On-Site Sewer Systems	Number of educational materials distributed	Develop at least 2 types of media/materials to help facilitate proper maintenance of on-site sewer systems Interim Milestone: N/A	Once per permit term
MS4 Outfall Inspections	Percentage of outfalls inspected	Inspect approximately 20% of the identified outfalls per year Interim Milestone: N/A	Annually
Public Reporting	Number of reports received	Develop at least 2 types of media/materials to help facilitate public reporting of illicit discharges Interim Milestone: N/A	Once per permit term
Pet Waste Management	Number of educational materials distributed.	Develop at least 2 types of media/materials to help promote proper pet waste management Interim Milestone: N/A	Once per permit term
Animal Shelters, Zoos and/or Horse Stables	Number of training sessions conducted	Conduct employee training at municipally owned animal shelters, zoos and horse stables at least once per permit term Interim Milestone: N/A	Once per permit term
Residential Education for Bacterial Sources	Number of educational materials distributed	Develop at least 2 types of media/materials to help facilitate public education for residential bacterial sources Interim Milestone: N/A	Once per permit term

## **SECTION 9: Impaired Water Bodies Without an Approved TMDL**

### **9.A. Permit Requirements:**

*The permittee shall also determine whether the permitted discharge is directly to one or more water quality impaired water bodies where a TMDL has not yet been approved by TCEQ and EPA. If the permittee discharges directly into an impaired water body without an approved TMDL, the permittee shall perform the following activities...*

### **9.B. Program Elements:**

The coalition has assessed the water bodies receiving stormwater discharges from the MS4(s), and developed targeted elements in order to address the pollutant(s) of concern for impaired water bodies without approved TMDLs.

- a. Pollutant of Concern:** During the first year following the permit effective date, the coalition will conduct an assessment to determine if discharges from coalition MS4's may be a source of pollutant(s) of concern by referring to the 303(d) list for specific stream segments. In cases where the assessment identifies that the pollutant(s) of concern are not likely to be contained by MS4 discharges, the associated coalition MS4(s) will not be subject to this section of the SWMP for those stream segments.
- b. Targeted Controls:** The coalition will utilize existing and new Best Management Practices to reduce the discharge of pollutants to impaired water bodies. The targeted controls include activities related to sanitary sewer systems, on-site sewer facilities, illicit discharges/dumping, and residential education programs.
- c. Measurable Goals:** The coalition has developed measurable goals and implementation schedules for all best management practices included for each targeted control listed in this section of the SWMP. The measurable goals and implementation schedules are included in the sections below.

### **9.C. Best Management Practices and Measurable Goals for Targeted Controls:**

- a. Failing On-Site Sewer Systems:** Identification of failing on-site sewer systems through complaints and/or visual inspections of the storm sewer system. Identified discharges from failing on-site sewer systems will be addressed as illicit discharges to the MS4 through the operator's legal authority.
- b. Promote Proper Maintenance of On-Site Sewer Systems:** Develop media to facilitate proper maintenance of on-site sewer systems. Educational materials may include brochures, websites, and/or social media pages.
- c. MS4 Outfall Inspections:** Utilize reports from MS4 field staff, citizens, and a concentrated dry weather screening program to inspect outfalls for illicit discharges.
- d. Public Reporting:** Develop media targeting the pollutant(s) of concern to facilitate public reporting of sanitary sewer overflows, failing on-site sewer systems, illicit discharges and/or other pollutant sources. Educational materials may include stormwater hotlines, brochures, websites, and/or social media pages.

- e. **Residential Education for Bacterial Sources:** Develop media to facilitate public education for bacterial sources including residential sources, proper disposal of fats, oils and greases, and decorative ponds. Educational materials may include flyers/brochures, websites, and/or social media pages.

**BMP Measurable Goals & Recordkeeping**

<b>BMP</b>	<b>Method of Measurement</b>	<b>Measurable Goals/Interim Milestones</b>	<b>Frequency of Action</b>
Failing On-Site Sewer Systems	Number of failing on-site sewer systems identified and the number of associated discharges eliminated	Conduct inspections and enforcement actions as appropriate for identified discharges associated with failing on-site sewer systems Interim Milestone: N/A	Annually
Promote Proper Maintenance of On-Site Sewer Systems	Number of educational materials distributed	Develop at least 2 types of media/materials to help facilitate proper maintenance of on-site sewer systems Interim Milestone: N/A	Once per permit term
MS4 Outfall Inspections	Percentage of outfalls inspected	Inspect approximately 20% of the identified outfalls per year	Annually
Public Reporting	Number of reports received	Develop at least 2 types of media/materials to help facilitate public reporting of illicit discharges Interim Milestone: N/A	Once per permit term
Residential Education for Bacterial Sources	Number of educational materials distributed	Develop at least 2 types of media/materials to help facilitate public education for residential bacterial sources Interim Milestone: N/A	Once per permit term

**Impaired Water Bodies - BMP Implementation Schedule & Responsible Party**

<b>BMP</b>	<b>Fort Bend County</b>	<b>Fort Bend County Drainage District</b>	<b>Full Implementation By:</b>
TMDL I-Plans	√	√	December 2017
Failing On-Site Sewer Systems	√		December 2017
Promote Proper Maintenance of On-Site Sewer Systems	√	√	December 2017
MS4 Outfall Inspections	√	√	Continued Full Implementation
Public Reporting	√	√	December 2017
Pet Waste Management	√	√	December 2017
Animal Shelters, Zoos and/or Horse Stables	√		December 2017
Residential Education for Bacterial Sources	√	√	December 2017

Represents targeted BMPs developed for MS4s that discharge to an impaired water body **with** an approved TMDL  
 Represents focused BMPs developed for MS4s that discharge to an impaired water body **with or without** an approved TMDL