

2024

Stormwater Management Program

For

Harris-Fort Bend Counties Municipal
Utility District No. 1



Table of Contents

List of Acronyms.....	iv
Part I. – General Permit Requirements.....	1
<i>Permit Overview.....</i>	<i>1</i>
Regulated MS4 Operators.....	1
Legal Authority.....	2
Location.....	2
Resources.....	3
Reporting Year.....	2
Record Keeping.....	3
Effluent Limitations.....	4
Enforcement Measures/Standard Operating Procedures.....	4
Implementation.....	4
Public Notice Requirements.....	5
Noncompliance Notification.....	5
Part II – Minimum Control Measures.....	6
<i>SWMP Overview.....</i>	<i>6</i>
MCM 1.0 Public Education and Outreach.....	7
1.1 Promote, Host, or Develop Educational Meetings, Seminar, or Training.....	7
1.2 Stormwater Website.....	8
1.3 Fact Sheets/Brochures/Utility Bill Inserts/Door Hanger.....	10
1.3.1 Targeted Education Campaign via mail, email, or in person.....	10
MCM 2.0 Public Involvement/Participation.....	13
2.1. Stormwater related speaker series.....	13
2.2. Stormwater survey.....	14
2.3. Public Meeting for input on the Program.....	15
MCM 3.0 Illicit Discharge Detection and Elimination (IDDE).....	17
3.1 Illicit Discharge Detection and Elimination Program.....	17
MCM 4.0 Construction Site Stormwater Runoff	
Control.....	21
4.1 Construction Site Stormwater Runoff Control Program.....	21
MCM 5.0 Post-Construction Stormwater Management in New Development and Redevelopment.....	26
5.1 Post-Construction Stormwater Maintenance Program.....	26
MCM 6.0 Pollution Prevention and Good Housekeeping for Municipal Operations.....	31

6.1 Operations and Maintenance Program.....	31
MCM 7.0 Industrial Stormwater Sources.....	35
MCM 8.0 Authorization for Construction Activities where the MS4 Operator is the Site Operator.....	35
Part III – Pollutant of Concern Program.....	36
<i>Background</i>	36
Watershed Description.....	37
Total Maximum Daily Load (TMDL).....	37
Benchmarks for Pollutants of Concern.....	39
Implementation Plans (I-Plans).....	42
Sources of the Bacteria Impairment.....	42
<i>Bacteria Specific Program Elements</i>	43
1.0 – Waste Water Treatment Facility Monitoring, Reporting and Facilities Assessment.....	43
BMP 1.1 Monitor Permit Limits for the WWTF.....	43
BMP 1.2 Facilities Assessment.....	44
2.0 – Sanitary Sewer Systems.....	45
BMP 2.1 Mapping of Sanitary Sewer System.....	45
BMP 2.2 Reporting of Sanitary Sewer Overflows (SSOs).....	46
BMP 2.3 Facilities Assessment.....	47
BMP 2.4 Reporting and Maintenance of Lift Station Functions.....	48
BMP 2.5 Sanitary Sewer Use Requirements.....	49
3.0 – Illicit Discharge Detection and Elimination.....	51
BMP 3.1 Illicit Discharges and Dumping.....	51
4.0 – Residential/Public Education & MS4 Operator Consultant Education.....	54
BMP 4.1 MS4 Operator Consultant and Public Training.....	54
5.0 – Animal Sources.....	56
6.0 – Monitoring Progress.....	58
Part IV – Appendices.....	59
References.....	Appendix A
Location Map – Harris Fort Bend Counties MUD No. 1 Aerial.....	Appendix B
TXR040000.....	Appendix C

Acronyms and Abbreviations

AU - Assessment Unit

AWBD - Association of Water Board Directors

BIG - Bacteria Implementation Group

BMP - Best Management Practice

BRA - Brazos River Authority

CRP - Texas Clean Rivers Program

DMR - Discharge Monitoring Report

DO - dissolved oxygen

EPA - U.S. Environmental Protection Agency

E. coli - *Escherichia coli*

ETJ - Extra-Territorial Jurisdiction

FOG - Fats, Oils, and Grease

GCWA - Gulf Coast Water Authority

H-GAC - Houston-Galveston Area Council

I-Plan - Implementation Plan

IA - Implementation Activity

IS - Implementation Strategy

LA - Load Allocation

LID - Low Impact Development

LIDs - Levee Improvement Districts

MEP – Maximum Extent Practicable

MGD - Million Gallons per Day

mL - Milliliter

MPN - Most Probable Number

MS4 – Small Municipal Separate Storm Sewer System

MUD - Municipal Utility District

OSSF - On-Site Sewage Facility

SSO - Sanitary Sewer Overflow

SOPs – Standard Operating Procedures

SWCD - Soil and Water Conservation District

SWMP – Stormwater Management Program

TAC - Texas Administrative Code

TCEQ - Texas Commission on Environmental Quality
TMDL - Total Maximum Daily Load
TPDES - Texas Pollutant Discharge Elimination System
UA - U.S. Census Bureau-designated Urbanized Area
UAMP- Utility Asset Management Program
WLA - Waste Load Allocation
WPP - Watershed Protection Plan
WQMP - Water Quality Management Plan
WWTF - Wastewater Treatment Facility

Part I - General Permit Requirements

Permit Overview

The Texas Commission on Environmental Quality (TCEQ) issued the Texas Pollutant Discharge Elimination System (TPDES) General Permit Number TXR040000 (the permit) on August 15, 2024 with an effective date of August 15, 2024. This permit supersedes and replaces the TPDES General Permit No. TXR040000, issued January 24, 2019. The permit provides authorization for stormwater and certain non-stormwater discharges from Small Municipal Separate Storm Sewer Systems (MS4s) to surface waters of the State.

The underlying purpose of the permit is to require regulated MS4's to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of Section 402 of the Clean Water Act and Section 26.040 of the Texas Water Code.

In order to achieve these goals, the permit requires regulated MS4s to submit a Notice of Intent (NOI) and develop and manage a Stormwater Management Program (SWMP) for all stormwater discharges that reach waters of the United States, regardless of whether the discharge is conveyed through a separately operated storm sewer system. A MS4 Operator that implements its SWMP and the selected Best Management Practices (BMPs) in accordance with the permit, will be considered meeting the standard of reducing pollutants to the MEP, and will be deemed in compliance with the permit.

Regulated MS4 Operators

Applicants

District Name addresses:

Harris-Fort Bend Counties Municipal Utility District No. 1
c/o Schwartz, Page, & Harding, LLP
1300 Post Oak Blvd. Suite 2400
Houston, TX 77056

Harris-Fort Bend Counties Municipal Utility District No. 5 is an existing MS4 Operator under the Permit.

Legal Authority

The Regulated MS4 is a body politic and a political subdivision of the State of Texas created under the authority of Article XVI, Section 59 of the Texas Constitution and operating under and governed by the provisions of Chapters 49 and 54 of the Texas Water Code, as amended. The MS4 Operator owns and operates a municipal separate storm sewer system and is considered a “Non-traditional Small MS4 Operator” as defined in the permit. TXR040000 defines the MS4 Operator as a Level 2b MS4 and the MS4 Operator obligated to comply with all requirements, to develop rules and regulations, and to exert enforcement actions to require compliance with this SWMP. Such required compliance may be implemented by the incorporation of rules and penalties into the MS4 Operator’s Rate Order or the MS4 Operator’s adoption of rules and regulations via resolution of the MS4 Operator’s Board of Directors (which would serve the same function as an ordinance). Over the course of the permit term, the MS4 Operator will use its Stormwater Guidance Manual, which outlines procedures to inspect third party actions from contractors, builders, and other potential polluters within its jurisdiction and to ensure compliance with this SWMP.

Location of the MS4 Operator

Harris-Fort Bend Counties Municipal Utility District No. 1’s jurisdiction lies wholly within the 2020 Census City of Houston Urban Area with the approximate center located at the following Latitude/Longitude: **29.7580, -95.7929**. See Location Map (**Appendix B**) for the MS4 Operator’s jurisdiction.

Resources

Although financial resources are limited and the demand for funding is ever-increasing, the MS4 Operator will ensure its annual budget includes adequate financial resources for proper implementation of the SWMP. There will be a team of consultants reporting to the MS4 Operator on a regular basis to ensure that SWMP implementation stays on schedule and within the budget.

Reporting Year

The MS4 Operator’s reporting year aligns with the calendar year. The first annual report for this general permit will address the period beginning on the day that authorization is obtained and ending on December 31 of that same year.

Record Keeping

The MS4 Operator will retain all records, a copy of the permit, and records of all data used to complete the NOI for the permit and satisfy the public participation requirements, for a period of at least three (3) years, or the remainder of the term of this general permit, whichever is longer. The MS4 Operator will submit the records to the executive director when specifically asked to do so. The SWMP will be retained at a location accessible to the TCEQ. The MS4 Operator will make the NOI and the SWMP available to the public at reasonable times during regular business hours, if requested to do so in writing. Copies of the SWMP will be made available within ten (10) business days of receipt of a written request. Other records shall be provided in accordance with the Texas Public Information Act.

The SWMP and its contents can be viewed at the following addresses:

Schwartz, Page & Harding, LLP
1300 Post Oak Blvd. Suite 2400
Houston, TX 77056

Vogler & Spencer Engineering, Inc.
777 N. Eldridge Parkway, Suite 500
Houston, TX 77079

Effluent Limitations

Effluent limitations for stormwater runoff are narrative and not numerical, requiring implementation of best management practices to protect water quality to the maximum extent practicable (MEP). The BMPs chosen for each MCM in this SWMP take into consideration applicable effluent limitations and are in compliance with State of Texas rules and regulations.

Enforcement measures and Standard Operating Procedures

The MS4 Operator has adopted standard operating procedures (SOPs) over the course of the previous permit term that outline how to respond to permit violations. These SOPs are included in the MS4 Operator's Stormwater Guidance Manual and will be reviewed and updated accordingly during this permit term.

Implementation

The MS4 Operator does not have a paid staff of employees to implement the stormwater program. Therefore, the MS4 Operator has engaged a Stormwater Consultant to direct program

implementation during the permit term. The Stormwater Consultant is responsible for coordinating SWMP related activities including development of BMPs, correspondence with the TCEQ, preparing the Annual Reports, and other activities, to comply with the permit conditions. The Stormwater Consultant is responsible for coordinating efforts, including those of other consultants, related to compliance with TPDES Permit No TXR040000. The Stormwater Consultant will set milestones and report directly to the MS4 Operator on a regular basis to keep them apprised of the SWMP implementation progress. The following MS4 consultants will assist in the implementation of the SWMP:

Attorney

Schwartz, Page & Harding, L.L.P.
1300 Post Oak Blvd. Suite 2400
Houston, TX 77056

Engineer & Stormwater Consultant

Vogler & Spencer Engineering, Inc.
777 N. Eldridge Pkwy, Suite 500
Houston, TX 77079

Operator

Inframark
2002 West Grand Parkway North, Suite 100
Katy, TX 77449

Public Notice Requirements

From time to time, the MS4 Operator may be required to follow public notice guidelines during the permit term. The MS4 Operator will comply with any applicable public notice requirements when publishing the SWMP and applicable paperwork.

Noncompliance Notification

As required, the MS4 Operator will report any noncompliance which may endanger human health or safety or the environment immediately to the TCEQ regional office. The MS4 Operator will also provide a written report to the appropriate TCEQ regional office and to the TCEQ Enforcement Division (MS-224) within five working days of becoming aware of the noncompliance. The written report will contain:

- A description of the noncompliance and its cause;
- The potential danger to human health or safety, or the environment;
- The period of noncompliance, including exact dates and times;
- If the noncompliance has not been corrected, the anticipated time it is expected to continue; and

- Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effect.

Part II – Stormwater Management Program

Overview of SWMP and Minimum Control Measures

The underlying purpose of the permit is to require regulated small MS4s to reduce the discharge of pollutants from the MS4 to the MEP, to protect water quality, and to satisfy the appropriate water quality requirements of Section 402 of the Clean Water Act and Section 26.040 of the Texas Water Code. In order to achieve these goals, the MS4 is required to develop and manage a Stormwater Management Program for all stormwater discharges that reach waters of the United States, regardless of whether the discharge is conveyed through a separately operated storm sewer system.

The MS4 Operator has included the following Minimum Control Measures (MCMs) and the selected Best Management Practices (BMPs) in accordance with the permit in order to meet the standard of reducing pollutants to the MEP.

MCM 1.0 Public Education and Outreach

Summary/Rationale

Public education is an important aspect of the overall nation-wide stormwater program. A public education and outreach program has been developed and will be updated accordingly during this permit term. Educational materials will continue to be developed in accordance with new permit requirements. The MS4 Operator’s public education and outreach program will continue using existing, as well as new educational materials to inform residents about the SWMP. The MS4 Operator will continue to document the activities conducted as part of this MCM. These records, along with any changes made to the BMPs or the corresponding implementation schedule, will be communicated in the annual report.

1.1 Promote, Host, or Develop Educational Meetings, Seminar, or Training

Description

The training program is directed at applicable MS4 Operator consultants responsible for goals relative to the SWMP, which include the public education, outreach and involvement/participation goals, the IDDE program, construction stormwater runoff control program, post-construction stormwater management, and pollution prevention/good housekeeping, and members of the general public who may be in attendance at regular District Board meetings. Training sessions will continue to be used to educate these parties on the requirements of TXR040000. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule:

- Year 1: MS4 Operator consultants who regularly attend District Board meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education and Outreach goals of the SWMP during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2025

- Year 2: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education and Outreach goals of the SWMP during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2026

- Year 3: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education and Outreach goals of the SWMP during one regular meeting in the calendar year

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2027

- Year 4: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education and Outreach goals of the SWMP during one regular meeting in the calendar year

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2028

- Year 5: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education and Outreach goals of the SWMP during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2029

End of Permit Term Goal: All MS4 Operator consultants and members of the public who were in attendance at regular board meetings will be educated on the Public Education and Outreach goals of the SWMP and the requirements of TXR040000.

Measurable Evaluation Criteria

- Meeting agenda
- Number of training sessions held
- Training material distributed at meetings
- Minutes of the meeting

1.2 Stormwater Website

Description

The MS4 Operator will continue to use the stormwater website, cleanbayous.org, as the central location of its SWMP information. Public documents, including the SWMP and the annual report will be available for download. The website(s) will showcase educational materials, as well as announce relevant public participation opportunities. The website(s) will target required audiences in accordance with the TXR040000. Visitors will be able to report illicit discharge and illegal dumping through

cleanbayous.org, as well as reference informative material relative to the SWMP. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Ensure the MS4 Operator’s most recent, approved annual report is available on the website (the new NOI and SWMP will also be uploaded if approved in year 1).

BMP/Activity	Measurable Goal	Deadline
Upload annual report and new SWMP/NOI	Website updated	Dec. 31, 2025

Year 2: Make public education material available on website. Ensure the most recently approved annual report, SWMP/NOI are available. Monitor and respond to all complaints submitted through cleanbayous.org’s illicit discharge complaint module.

BMP/Activity	Measurable Goal	Deadline
Respond to public complaints on website	Respond to 100% of complaints	3 business days
Upload annual report and new SWMP/NOI	Website updated	Dec. 31, 2026
Upload educational material	Website updated	Dec. 31, 2026

- Year 3: Make public education material available on website. Ensure the most recently approved annual report, SWMP/NOI are available. Monitor and respond to all complaints submitted through cleanbayous.org’s illicit discharge complaint module.

BMP/Activity	Measurable Goal	Deadline
Respond to public complaints on website	Respond to 100% of complaints	3 business days
Upload annual report and new SWMP/NOI	Website updated	Dec. 31, 2027
Upload educational material	Website updated	Dec. 31, 2027

- Year 4: Make public education material available on website. Ensure the most recently approved annual report, SWMP/NOI are available. Monitor and respond to all complaints submitted through cleanbayous.org’s illicit discharge complaint module.

BMP/Activity	Measurable Goal	Deadline
Respond to public complaints on website	Respond to 100% of complaints	3 business days
Upload annual report and new SWMP/NOI	Website updated	Dec. 31, 2028

Upload educational material	Website updated	Dec. 31, 2028
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- Year 5: Make public education material available on website. Ensure the most recently approved annual report, SWMP/NOI are available. Monitor and respond to all complaints submitted through cleanbayous.org's illicit discharge complaint module.

BMP/Activity	Measurable Goal	Deadline
Respond to public complaints on website	Respond to 100% of complaints	3 business days
Upload annual report & new SWMP/NOI	Website updated	Dec. 31, 2029
Upload educational material	Website updated	Dec. 31, 2029

- End of Permit Term Goal: Website will showcase educational material, receive and track complaints, announce public participation events, as well as the NOI/SWMP/, and the most recent annual report.

Measurable Evaluation Criteria

- Number of reports/complaints
- Amount of educational items uploaded to website

1.3 Fact Sheets/Brochures/Utility Bill Inserts/Door Hangers

1.3.1 Targeted Education Campaign via mail, email, or in person

Description

The public education program will continue to be used to inform the public about the impacts that pollution in stormwater run-off can have on water quality, hazards associated with illegal/illicit discharges and improper disposal of waste, and ways to minimize the impact on stormwater quality. These educational efforts will continue to recommend methods to the MS4 Operator residents as to how they can identify and reduce pollution/illicit discharges. Educational material will continue to address lawn maintenance, household hazardous waste, pet wastes, and other sources of pollution. Material will be posted on the website for public viewing. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Research topics to use for utility bill inserts and targeted education.

BMP/Activity	Measurable Goal	Deadline
Utility Bill Inserts	Research topics	Dec. 31, 2025
Targeted Education	Research topics	Dec. 31, 2025

- Year 2: Approve design for the year 2 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to at least 75% of District residents. Perform 1 mailing to MS4 Operator residents. Post on website.

BMP/Activity	Measurable Goal	Deadline
Presentation of targeted educational material at District board meeting	Approve targeted educational material for distribution	Dec 31, 2026
Presentation of UBI at District board meeting	Approve UBIs for distribution	Dec 31, 2026
Mail and/or link QR code of targeted educational material to UBI	Mail approved targeted educational material to at least 75% of District residents, and/or link a QR code of the material to the UBI	Dec 31, 2026
Mail approved UBI	Mail approved UBI to at least 75% of District residents	Dec. 31, 2026
Post educational material on website	Website(s) updated annually	Dec. 31, 2026

- Year 3: Approve design for the year 3 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to at least 75% of District residents. Perform 1 mailing to MS4 Operator residents. Post on website.

BMP/Activity	Measurable Goal	Deadline
Presentation of targeted educational material at District board meeting	Approve targeted educational material for distribution	Dec 31, 2027
Presentation of UBI at District board meeting	Approve UBIs for distribution	Dec 31, 2027
Mail and/or link QR code of targeted educational material to UBI	Mail approved targeted educational material to at least 75% of District residents, and/or link a QR code of the material to the UBI	Dec 31, 2027
Mail approved UBI	Mail approved UBI to at least 75% of District residents	Dec. 31, 2027
Post educational material on website	Website(s) updated annually	Dec. 31, 2027

- Year 4: Approve design for the year 4 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to at least 75% of District residents. Perform 1 mailing to MS4 Operator residents. Post on website.

BMP/Activity	Measurable Goal	Deadline
Presentation of targeted educational material at District board meeting	Approve targeted educational material for distribution	Dec 31, 2028
Presentation of UBI at District board meeting	Approve UBIs for distribution	Dec 31, 2028
Mail and/or link QR code of targeted educational material to UBI	Mail approved targeted educational material to at least 75% of District residents, and/or link a QR code of the material to the UBI	Dec 31, 2028
Mail approved UBI	Mail approved UBI to at least 75% of District residents	Dec. 31, 2028
Post educational material on website	Website(s) updated annually	Dec. 31, 2028

- Year 5: Approve design for the year 5 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to at least 75% of District residents. Perform 1 mailing to MS4 Operator residents. Post on website.

BMP/Activity	Measurable Goal	Deadline
Presentation of targeted educational material at District board meeting	Approve targeted educational material for distribution	Dec 31, 2029
Presentation of UBI at District board meeting	Approve UBIs for distribution	Dec 31, 2029
Mail and/or link QR code of targeted educational material to UBI	Mail approved targeted educational material to at least 75% of District residents, and/or link a QR code of the material to the UBI	Dec 31, 2029
Mail approved UBI	Mail approved UBI to at least 75% of District residents	Dec. 31, 2029
Post educational material on website	Website(s) updated annually	Dec. 31, 2029

- End of Permit Term Goal: At least 75% of all residents within the MS4 Operator's jurisdiction will receive targeted educational material, and other information on stormwater-related topics in the form of an UBI annually. Updated educational information and the SMWP will be available on website.

Measurable Evaluation Criteria

- Educational material approved annually
- Educational material distributed annually
- Educational material intended to reach at least 75% of the intended audience
- Educational material posted on website annually

Interim Milestone for MCM 1.0

By the end of year 2, the website will be updated. By the end of year 3, MS4 Operator consultants will have received at least 3 training sessions relative to the SWMP. Educational material will be distributed annually starting in year 2.

MCM 2.0 Public Involvement/ Participation

Summary/Rationale:

Public involvement and participation are critical components of the overall nationwide stormwater program. Engaging the public in the development and implementation of the Stormwater Management Program (SWMP) helps to foster a sense of community ownership and responsibility for local water quality issues. A public involvement and participation program has been developed, and will be updated accordingly, to create opportunities for the community to actively participate in the SWMP. Public involvement efforts will include the stormwater related speaker series BMP, the public meeting component to solicit input and feedback on stormwater management practices and initiatives, as well as the use of surveys. The MS4 operator will continue to document these activities, and any changes made to BMPs or implementation schedule will be communicated in the annual report.

2.1 Stormwater related speaker series

Description:

The MS4 Operator will organize and conduct a series of educational sessions known as the Stormwater-Related Speaker Series. These sessions will feature an expert in stormwater management or related fields. The purpose of this goal is to educate and engage the community on stormwater management issues, pollution prevention, and best practices. Each session will be designed to provide valuable information and encourage proactive involvement in stormwater pollution prevention. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule:

- Year 1: Members of the public who attend District Board meetings, will be involved in the stormwater related speaker series during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Stormwater speaker series	Research subjects	Dec 31, 2025

- Year 2: Members of the public who attend District Board meetings, will be involved in the stormwater related speaker series during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Stormwater speaker series	Hold at least 1 session per year at a public meeting	Dec 31, 2026

- Year 3: Members of the public who attend District Board meetings, will be involved in the stormwater related speaker series during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Stormwater speaker series	Hold at least 1 session per year at a public meeting	Dec 31, 2027

- Year 4: Members of the public who attend District Board meetings, will be involved in the stormwater related speaker series during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Stormwater speaker series	Hold at least 1 session per year at a public meeting	Dec 31, 2028

- Year 5: Members of the public who attend District Board meetings, will be involved in the stormwater related speaker series during one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Stormwater speaker series	Hold at least 1 session per year at a public meeting	Dec 31, 2029

- End of Permit Term Goal: Members of the public will receive 1 stormwater speaker series session per year, starting in year 2.

Measurable Evaluation Criteria

- Stormwater related speaker series held 1 time per year.

2.2 Stormwater Survey

Description:

The MS4 Operator will conduct an annual survey to gather feedback from the community on stormwater management practices and initiatives. The surveys can be distributed through various channels, which may include a barcode, or a link to the survey’s website on the utility bills and or/utility bill inserts sent to residents. A link may be provided on the MUD’s website or other related websites to ensure participation opportunities. The feedback obtained may be used to improve the SWMP and its implementation efforts.

Implementation Schedule:

- Year 1: Research stormwater related topics and begin the creation of the survey.

BMP/Activity	Measurable Goal	Deadline
Survey	Research topics and begin creation of surveys	Dec. 31, 2025

- Year 2: survey

BMP/Activity	Measurable Goal	Deadline
Survey	Distribute to at least 75% of the intended audience	Dec. 31, 2026

- Year 3: Publish survey and review results

BMP/Activity	Measurable Goal	Deadline
Survey	Distribute to at least 75% of the intended audience	Dec. 31, 2027

- Year 4: Publish survey and review results

BMP/Activity	Measurable Goal	Deadline
Survey	Distribute to at least 75% of the intended audience	Dec. 31, 2028

- Year 5: Publish survey and review results

BMP/Activity	Measurable Goal	Deadline
Survey	Distribute to at least 75% of the intended audience	Dec. 31, 2029

- End of Permit Term Goal: Members of the public will be given annual opportunities to complete the survey and the feedback will be analyzed to improve implementation efforts of the SWMP and address community concerns, where necessary.

Measurable Evaluation Criteria

- Annual surveys to begin in year 2
- Advertised to reach at least 75% of the intended audience

2.3 Public Meeting for input on the Program

Description:

The MS4 Operator will have a standing agenda item for its regularly occurring public meetings. This item will allow for community input and discussion on the stormwater management program. These meetings will provide a platform for transparent communication and encourage community participation in stormwater-related initiatives. The topics covered will include an overview of the MS4 program, updates on recent and upcoming stormwater goals, and discussion of challenges and opportunities in

stormwater management. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule:

- Year 1: Host at least one public meeting and allow for input on the program implementation.

BMP/Activity	Measurable Goal	Deadline
Public meeting	Host at least one meeting annually	Dec. 31, 2025

- Year 2: Host at least one public meeting and allow for input on the program implementation.

BMP/Activity	Measurable Goal	Deadline
Public meeting	Host at least one meeting annually	Dec. 31, 2026

- Year 3: Host at least one public meeting and allow for input on the program implementation.

BMP/Activity	Measurable Goal	Deadline
Public meeting	Host at least one meeting annually	Dec. 31, 2027

- Year 4: Host at least one public meeting and allow for input on the program implementation.

BMP/Activity	Measurable Goal	Deadline
Public meeting	Host at least one meeting annually	Dec. 31, 2028

- Year 5: Host at least one public meeting and allow for input on the program implementation.

BMP/Activity	Measurable Goal	Deadline
Public meeting	Host at least one meeting annually	Dec. 31, 2029

- End of Permit Term Goal: Agenda item during public meeting to allow for input on program implementation held at least once annually, and advertised to reach at least 75% of the intended audience.

Measurable Evaluation Criteria

- Public meeting held at least once annually
- Advertised to reach at least 75% of the intended audience

Interim Milestone for MCM 2.0

Starting in year 2, the MS4 Operator will conduct a stormwater-related speaker series session annually and publish a survey to gather community feedback on stormwater management practices. By the end of year 3, the MS4 Operator will have hosted three public meetings allowing for community involvement relative to the SWMP.

MCM 3.0 Illicit Discharge Detection and Elimination (IDDE)

Summary/Rationale

Illicit discharges are a major source of pollution in the nation's waterways. The MS4 Operator currently has a Stormwater Guidance Manual in effect. This Manual outlines detection and elimination techniques and procedures. To the extent allowable under State and local law, a regulatory mechanism has been established to prohibit and eliminate illicit discharges. In conjunction with the regulatory mechanisms, appropriate actions and enforcement procedures for removing the source of an illicit discharge will continue to be reviewed, updated and implemented. A comprehensive map of the conveyance system, including the locations of outfalls and the names and locations of Waters of the U.S. receiving discharges, will be updated periodically to aid in the detection and elimination of sources of illicit discharges. The following non-stormwater sources may be discharged from the MS4 Operator as allowed under the general permit: water line flushing; runoff or return flow from landscape irrigation, lawn irrigations, and other irrigation utilizing potable water, groundwater, or surface water sources; discharges from potable water sources; diverted stream flows; rising ground water and springs; uncontaminated ground water infiltration; uncontaminated pumped ground water; foundation and footing drains; air conditioning condensation; water from crawl space pumps; individual residential vehicle washing; flows from wetlands and riparian habitats; dechlorinated swimming pool discharges; street wash water; discharges or flows from emergency firefighting activities (emergency firefighting activities do not include washing of trucks, runoff water from training activities, test water from fire suppression systems, and similar activities); and other similar occasional incidental non-stormwater discharges, unless the TCEQ develops permits or regulations addressing these discharges. Onsite sewage disposal systems are not allowed in this District. The MS4 Operator will document the activities conducted as part of this MCM. These records, along with any changes made to the BMPs or the corresponding implementation schedule, will be communicated in the annual report.

3.1 Illicit Discharge Detection and Elimination Program

Description

The MS4 Operator will continue to implement, and enforce the existing IDDE program, outlined in the District's Stormwater Guidance Manual (chapter 2) to detect, investigate, and eliminate illicit discharge into the MS4. The program includes an annual update to the MS4's stormwater conveyance map, methods for training, procedures for tracing, and procedures for removing the source. Chapter 2 of the Stormwater Guidance Manual,

which is the MS4’s IDDE Program, will continue to be implemented as a part of its SWMP. This chapter shall also include information regarding responses to, and investigations of, illicit discharges and spills. If the illicit connection or illicit discharge is observed related to another operator’s MS4, the MS4 Operator shall notify the other MS4 Operator within 48 hours of discovery. If impracticable, the MS4 Operator shall notify the appropriate TCEQ regional office of the possible illicit connection. If another MS4 notifies the MS4 Operator of an illegal connection or an illicit discharge, then the MS4 Operator shall follow the IDDE plan. The MS4 Operator will review and update the SWMP and IDDE plan throughout the permit term as necessary. The MS4 Operator will also maintain on-site procedures for responding to illicit discharges and spills and will include source investigation and elimination, and conduct inspections deemed appropriate in response to complaints. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: The stormwater consultant will explain the need to comply with the new conditions of the 2024 TXR040000 to the MS4 Operator consultants and customers in attendance at a regularly scheduled meeting of the Board of Directors. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within three business days.

BMP/Activity	Measurable Goal	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025
Monitor website for complaints	Respond to 100% of complaints	3 business days

- Year 2: The Stormwater consultant will review and update the District’s IDDE Program. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session relative to IDDE and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2026

Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2026
Monitor website for complaints	Respond to 100% of complaints	3 business days
Training & Education on IDDE Program	Hold at least 1 training sessions per year	Dec 31, 2026

- Year 3: The Stormwater consultant will review and update the District's IDDE Program. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session relative to IDDE and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2027
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2027
Monitor website for complaints	Respond to 100% of complaints	3 business days
Training & Education on IDDE Program	Hold at least 1 training sessions per year	Dec 31, 2027

- Year 4: The Stormwater consultant will review and update the District's IDDE Program. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session relative to IDDE and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2028
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2028
Monitor website for complaints	Respond to 100% of complaints	3 business days

Training & Education on IDDE Program	Hold at least 1 training sessions per year	Dec 31, 2028
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- Year 5: The Stormwater consultant will review and update the District’s IDDE Program. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session relative to IDDE and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2029
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2029
Monitor website for complaints	Respond to 100% of complaints	3 business days
Training & Education on IDDE Program	Hold at least 1 training sessions per year	Dec 31, 2029

- End of Permit Term Goal: The IDDE Program will be updated and implemented. A comprehensive map of the MS4’s stormwater conveyance system will be up to date.

Measurable Evaluation Criteria

- Meeting agenda item for public involvement, necessary training, and education
- Meeting minutes
- Updated chapter 2 of the GM
- Updated stormwater conveyance map

Interim Milestone for MCM 3.0

By the end of year 3, three training sessions will be held for District consultants and customers in attendance of the Board meeting where training was held. The stormwater conveyance map will be updated annually.

MCM 4.0 Construction Site Stormwater Runoff Control

Summary/Rationale

Construction site runoff can be a major source of pollution of the nation's waterways. This source of pollution is so impactful that a separate stormwater permit (TXR150000) has been issued to regulate these pollutants, including trash, chemicals, and other harmful contaminants. The MS4 Operator, to the extent allowable under State and local law, will continue to, implement, and enforce a program to reduce pollutants in any stormwater runoff from construction activities that result in a land disturbance of greater than or equal to one acre including projects less than one acre that are part of a larger common plan of development or sale that will result in disturbance of one or more acres. The program, as outlined in the MS4 Operator's Stormwater Guidance Manual, will continue to require construction site operators to implement erosion and sediment control practices as well as manage construction site stormwater runoff, as required by the Construction General Permit (CGP) TXR150000. The program includes the implementation of a regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State and local law. Procedures will be reviewed and updated as necessary for site inspections, enforcement of resolution, consideration of public input, and site plan review to consider water quality impacts. The MS4 Operator will review and update the existing chapter in the Stormwater Guidance Manual. Updates will ensure that the Construction Site Runoff Control Program, which consists of a Construction Operation Program, a Construction Plan Review Process, and a Construction Site Inspection and Enforcement Program all meet the standards of the current TXR150000. The MS4 Operator will document the activities conducted as part of this MCM. These records, along with any changes made to the BMPs or the corresponding implementation schedule, will be communicated in the annual report.

4.1 Construction Site Runoff Control Program

Description

The MS4 Operator will continue to implement and enforce this program requiring operators of small and large construction activities to select, install, implement, and maintain stormwater control measures that prevent illicit discharges to the maximum extent practicable. This program also includes the implementation of a regulatory mechanism, as well as sanctions to ensure compliance to the extent allowable under law, to require erosion and sediment control. As part of the Construction Site Runoff Program outlined in the Stormwater Guidance Manual, the Construction Operations Program

details the methods of ensuring the Stormwater Pollution Prevention Plan (SWPPP) is in accordance with the TXR150000. This program details how the MS4 Operator will maintain and implement site plan review procedures. The MS4 Operator will update its existing inspection procedures where necessary for large and small construction projects. This program also outlines methods relative to the construction site inspection and enforcement requirements, which are included in the program. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: The stormwater consultant will explain the need to comply with the new conditions of the 2024 TXR040000 to the MS4 Operator consultants and members of the public in attendance at a regularly scheduled meeting of the Board of Directors.

BMP/Activity	Measurable Goal	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Year 2: The stormwater consultant will review and update the existing Construction Site Stormwater Runoff Program (Chapter 3 of Stormwater Guidance Manual). The MS4 Operator will hold at least one training session relative to Construction Site Stormwater Runoff Control and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review and update chapter 3 of GM	Chapter 3 will be reviewed and updated to comply with the new construction provisions of TXR040000	Dec. 31, 2026
Training & Education on Construction Site Stormwater Runoff Control	Hold at least 1 training session per year	Dec 31, 2026

- Year 3: The stormwater consultant will review and update the existing Construction Site Stormwater Runoff Program. Implement the Construction Site Runoff Control Program as outlined in the Stormwater Guidance Manual. The MS4 Operator will hold at least one training session relative to Construction Site Stormwater Runoff Control and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review chapter 3 of GM	Chapter 3 will comply with the new construction provisions of TXR040000	Dec. 31, 2027
Implement chapter 3 of GM	Review and update District's Rate Order where applicable	Dec. 31, 2027
	District engineer will review 100% new construction site plans and review procedures annually	30 days from receipt of plans
	Review and update inspection procedures where applicable	Dec. 31, 2027
	Conduct inspections at a minimum of 80% of active construction sites where applicable	Dec. 31, 2027
	Conduct follow up inspections in 100% of cases where necessary	Dec. 31, 2027
	Review of 100% of NOIs received for new construction projects by District's engineer/stormwater consultant	30 days from NOI filing date
Training & Education on Construction Site Stormwater Runoff Control	Hold at least 1 training session per year	Dec. 31, 2027

- Year 4: The stormwater consultant will review and update existing Construction Site Stormwater Runoff Program. Implement the Construction Site Runoff Control Program as outlined in the Stormwater Guidance Manual. The MS4 Operator will hold at least one training session relative to Construction Site Stormwater Runoff Control and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review chapter 3 of GM	Chapter 3 will comply with the new construction provisions of TXR040000	Dec. 31, 2028
Implement chapter 3 of GM	Review and update District's Rate Order where applicable	Dec. 31, 2028
	District engineer will review 100% new construction site plans and review procedures annually	30 days from receipt of plans

	Review and update inspection procedures where applicable	Dec. 31, 2028
	Conduct inspections at a minimum of 80% of active construction sites where applicable	Dec. 31, 2028
	Conduct follow up inspections in 100% of cases where necessary	Dec. 31, 2028
	Review of 100% of NOIs received for new construction projects by District's engineer/stormwater consultant	30 days from NOI filing date
Training & Education on Construction Site Stormwater Runoff Control	Hold at least 1 training session per year	Dec 31, 2028

- Year 5: The stormwater consultant will review and update existing Construction Site Stormwater Runoff Program. Implement the Construction Site Runoff Control Program as outlined in the Stormwater Guidance Manual. The MS4 Operator will hold at least one training session relative to Construction Site Stormwater Runoff Control and other SWMP goals. Given that the MS4 Operator does not have field staff, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review chapter 3 of GM	Chapter 3 will comply with the new construction provisions of TXR040000	Dec. 31, 2029
Implement chapter 3 of GM	Review and update District's Rate Order where applicable	Dec. 31, 2029
	District engineer will review 100% new construction site plans and review procedures annually	30 days from receipt of plans
	Review and update inspection procedures where applicable	Dec. 31, 2029
	Conduct inspections at a minimum of 80% of active construction sites where applicable	Dec. 31, 2029
	Conduct follow up inspections in 100% of cases where necessary	Dec. 31, 2029

	Review of 100% of NOIs received for new construction projects by District's engineer/stormwater consultant	30 days from NOI filing date
Training & Education on Construction Site Stormwater Runoff Control	Hold at least 1 training session per year	Dec. 31, 2029

- End of Permit Term Goal: The Construction Site Stormwater Runoff Control Program (TXR040000 and TXR150000) will be implemented throughout the MS4 Operator's jurisdiction on all new construction sites in accordance with the GM and SWMP.

Measurable Evaluation Criteria

- Meeting agenda item for public involvement, necessary training, and education
- Meeting minutes
- Updated chapter 3 of the GM
- Number of NOIs received by the District's engineer
- Number of new construction plans reviewed by District's engineer

Interim Milestone for MCM 4.0

By the end of year 2, chapter 3 of the GM will be updated.

MCM 5.0 Post-Construction Stormwater Management in New Development and Redevelopment

Summary/Rationale

Stormwater runoff from existing development, as well as redevelopment in previously developed areas can be a major source of pollution, including bacteria, fertilizers, pesticides, trash, and other harmful contaminants. To the extent allowable under State and local law, the MS4 Operator will continue to implement and enforce the Standard Operating Procedures (SOPs) detailed in the Stormwater Guidance Manual to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre of land, including projects less than one acre that are part of a larger common plan of development or sale that will result in disturbance of one or more acres. The Stormwater Guidance Manual works in tandem with the MS4 Operator's adopted regulatory mechanism to address structural/nonstructural controls on new development and redevelopment, as well as sanctions to ensure compliance, to the extent allowable under State and local law. The MS4 Operator will continue to document the activities conducted and the amount of resources/materials used. These records, along with any changes made to the BMPs or the corresponding implementation schedule, will be communicated in the annual report.

5.1 Post-Construction Stormwater Maintenance Program

Description

The existing chapter in the MS4 Operator's Stormwater Guidance Manual will be updated in accordance with the new TXR040000. This chapter addresses the MS4 Operator's approach to Post-Construction Stormwater Maintenance in New Development and Redevelopment. This chapter also addresses the use and recommended implementation of structural/nonstructural controls, as well as outlines methods used for the long-term operation and maintenance of these structural controls. Any maintenance of structural/non-structural controls, according to the Stormwater Guidance Manual, will be performed at a frequency determined by the MS4 Operator to ensure adequate long-term operation and to maintain the continued effectiveness of appropriate BMPs for the community. Regular maintenance for all drainage ways and appurtenances within the MS4 Operator's jurisdiction will be required and outlined in the MS4 Operator's Stormwater Guidance Manual. Records of enforcement actions will be documented in the

meeting minutes and kept in the District file. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: The stormwater consultant will explain the need to comply with the new conditions of the 2024 TXR040000 to the MS4 Operator consultants and members of the public in attendance at a regularly scheduled meeting of the Board of Directors.

BMP/Activity	Measurable Goal	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Year 2: The stormwater consultant will review and update the existing Stormwater Guidance Manual chapter relative to post-construction. The stormwater conveyance map will be reviewed annually and updated based on changes to the storm sewer system caused by new construction and/or reconstruction. The county’s Drainage Criteria Manual will be reviewed for any new regulations that may affect post-construction/new construction.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 4 of GM	Chapter 4 will be reviewed and updated to comply with the new post-construction provisions of TXR040000	Dec. 31, 2026

- Year 3: The stormwater consultant will review and update the existing Stormwater Guidance Manual chapter relative to post-construction. The stormwater conveyance map will be reviewed annually and updated based on changes to the storm sewer system caused by new construction and/or reconstruction. Implement the Post-Construction Program within the MS4’s jurisdiction will begin in year 3. The county’s Drainage Criteria Manual will be reviewed for any new regulations that may affect post-construction/new construction.

BMP/Activity	Measurable Goal	Deadline
Review chapter 4 of GM	Chapter 4 will comply with the new post-construction provisions of TXR040000	Dec. 31, 2027
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2027
Implement chapter 4 of GM	District engineer will review all new post-construction plans and applications for new construction	30 days from receipt of plans
	Review and update District’s Rate Order where applicable	Dec. 31, 2027

	Maintain records of 100% of enforcement actions taken	Dec. 31, 2027
	Make 100% of enforcement records available to TCEQ for review	24 hrs.
	Implement maintenance plan and schedule addressing 100% of stormwater control measures	Dec. 31, 2027
	Require 100% of the owners or operators of any new development or redeveloped sites to develop and implement a maintenance plan addressing maintenance requirements for structural control measures	Dec. 31, 2027
	Make 100% of maintenance records available to the TCEQ	24 hrs.
Review county's Drainage Criteria Manual	Modify chapter 4 of the GM based on new provisions found in the county's Drainage Criteria Manual	Dec. 31, 2027

- Year 4: The stormwater consultant will review and update the existing Stormwater Guidance Manual chapter relative to post-construction. The stormwater conveyance map will be reviewed annually and updated based on changes to the storm sewer system caused by new construction and/or reconstruction. Continue implementation of the Post-Construction Program within the MS4's jurisdiction. The county's Drainage Criteria Manual will be reviewed for any new regulations that may affect post-construction/new construction.

BMP/Activity	Measurable Goal	Deadline
Review chapter 4 of GM	Chapter 4 will comply with the new post-construction provisions of TXR040000	Dec. 31, 2028
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2028
Implement chapter 4 of GM	District engineer will review all new post-construction plans and applications for new construction	30 days from receipt of plans
	Review and update District's Rate Order where applicable	Dec. 31, 2028
	Maintain records of 100% of enforcement actions taken	Dec. 31, 2028

	Make 100% of enforcement records available to TCEQ for review	24 hrs.
	Implement maintenance plan and schedule addressing 100% of stormwater control measures	Dec. 31, 2028
	Require 100% of the owners or operators of any new development or redeveloped sites to develop and implement a maintenance plan addressing maintenance requirements for structural control measures	Dec. 31, 2028
	Make 100% of maintenance records available to the TCEQ	24 hrs.
Review county's Drainage Criteria Manual	Modify chapter 4 of the GM based on new provisions found in the county's Drainage Criteria Manual	Dec. 31, 2028

- Year 5: The stormwater consultant will review and update the existing Stormwater Guidance Manual chapter relative to post-construction. The stormwater conveyance map will be reviewed annually and updated based on changes to the storm sewer system caused by new construction and/or reconstruction. Continue implementation of the Post-Construction Program within the MS4's jurisdiction. The county's Drainage Criteria Manual will be reviewed for any new regulations that may affect post-construction/new construction.

BMP/Activity	Measurable Goal	Deadline
Review chapter 4 of GM	Chapter 4 will comply with the new post-construction provisions of TXR040000	Dec. 31, 2029
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2029
Implement chapter 4 of GM	District engineer will review all new post-construction plans and applications for new construction	30 days from receipt of plans
	Review and update District's Rate Order where applicable	Dec. 31, 2029
	Maintain records of 100% of enforcement actions taken	Dec. 31, 2029
	Make 100% of enforcement records available to TCEQ for review	24 hrs.

	Implement maintenance plan and schedule addressing 100% of stormwater control measures	Dec. 31, 2029
	Require 100% of the owners or operators of any new development or redeveloped sites to develop and implement a maintenance plan addressing maintenance requirements for structural control measures	Dec. 31, 2029
	Make 100% of maintenance records available to the TCEQ	24 hrs.
Review county's Drainage Criteria Manual	Modify chapter 4 of the GM based on new provisions found in the county's Drainage Criteria Manual	Dec. 31, 2029

- End of Permit Term Goal: Implementation of chapter 4 of the Stormwater Guidance Manual and produce an updated stormwater conveyance map annually.

Measurable Evaluation Criteria

- Updated chapter 4 of the GM
- Number of applications for new construction/reconstruction received by the District's engineer
- Updated stormwater conveyance map

Interim Milestone for MCM 5.0

By the end of year 2, any updates to the Post-Construction Stormwater Management chapter of Stormwater Guidance Manual will be completed.

MCM 6.0 Pollution Prevention and Good Housekeeping for Municipal Operations

Summary/Rationale

In addition to the stormwater conveyance system, the MS4 Operator may own facilities including water plants, lift stations, wastewater treatment plants, parks, and parking lots that could be a source of pollution to the state's waterways. The MS4 Operator's Stormwater Guidance Manual addresses the approach to Pollution Prevention and Good Housekeeping for Municipal Operations. The Stormwater Guidance Manual also contains methods used to develop and maintain inventory of facilities and stormwater controls, procedures for contractor requirements and oversight, and evaluation of municipal operation and maintenance activities. The MS4 Operator's Operation and Maintenance Program will continue to be implemented to prevent or reduce pollutant runoff from municipal operations and municipally-owned areas. A training program will continue to be implemented for all parties responsible for municipal operations subject to the pollution prevention/good housekeeping program. Procedures for the proper disposal of waste removed within the MS4 Operator's jurisdiction and waste that is collected as a result of maintenance of stormwater structural controls will continue to be implemented as well. A list of maintenance activities, maintenance schedule, and long-term inspection procedures for controls used to reduce floatables and other pollutants is also included in this program element. Housekeeping measures and BMPs that reduce pollutants will continue to be implemented throughout this permit term. Stormwater discharges authorized by other TPDES permits are authorized and meet the applicability and eligibility requirements under TXR040000. The MS4 Operator will document the activities conducted as part of this MCM. These records, along with any changes made to the BMPs or the corresponding implementation schedule, will be communicated in the annual report.

6.1 Operations and Maintenance Program

Description

As part of its Stormwater Guidance Manual, the MS4 Operator has developed an Operation and Maintenance Program with the ultimate goal of preventing or reducing pollutant runoff from municipal activities and municipally-owned areas. The program also includes education concerning the proper disposal of waste material. Contractor oversight is included in this program as well; any contractor hired by the MS4 Operator to perform work within the MS4 Operator's jurisdiction is contractually required to

comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures described in the permit and/or District Rate Order. The MS4 Operator will continue to evaluate Operation and Maintenance (O&M) activities for the potential to discharge pollutants. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: The stormwater consultant will explain the need to comply with the new conditions of the 2024 TXR040000 to the MS4 Operator consultants and members of the public in attendance at a regularly scheduled meeting of the Board of Directors.

BMP/Activity	Measurable Goal	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Year 2: The stormwater consultant will annually review and update existing Municipal Operations Program. The MS4 Operator will hold one training session relative to Pollution Prevention and Good Housekeeping for Municipal Operations and other SWMP goals. Given that the MS4 Operator does not have staff/employees, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline/Frequency
Review & update chapter 5 of GM	Chapter 5 will be reviewed and updated to comply with the new Municipal Operations provisions of TXR040000	Dec. 31, 2026
Training & Education on Municipal Operations & Good Housekeeping	Hold 1 training session per year	Dec 31, 2026

- Years 3-5: The stormwater consultant will annually review and update existing Municipal Operations Program. Implementation of the Operations and Maintenance Program as outlined in chapter 5 of the GM will begin in year 3. Annually update inventory of all facilities and stormwater controls owned by the District based on any new construction of District facilities. The MS4 Operator will hold one training session relative to Pollution Prevention and Good Housekeeping for Municipal Operations and other SWMP goals. Given that the MS4 Operator does not have staff/employees, the training sessions will be performed during regularly scheduled Board meetings for MS4 Operator consultants and members of the public in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline/Frequency
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Review chapter 5 of GM	Chapter 5 will comply with the new Municipal Operations provisions of TXR040000	Annually by 12/31
Implement chapter 5 of GM	Board of Directors will review operations reports	Monthly
	Develop and maintain an annual inventory for 100% of the small MS4 owned and operated facilities and controls	Annually by 12/31
	Review & update the inventory of District facilities for use in implementing good housekeeping measures	Annually by 12/31
	Hold 1 training session per year	Annually by 12/31
	Ensure that 100% of waste from the MS4 is disposed of in accordance with 30 TAC Chapters 330 or 335	Annually by 12/31
	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	Annually by 12/31
	Implement oversight procedures of contractor activities in 100% of contracts to ensure that contractors are using appropriate control measures and SOPs	Annually by 12/31
	Maintain oversight procedures on-site 100% of the time and make available for review by TCEQ	24 hrs.

	Evaluate 100% of O&M activities, in conjunction with procedure reviews if appropriate	Annually by 12/31
	Identify pollutants of concern that could be discharged from all of the O&M activities and maintain a list of 100% of the pollutants identified	Annually by 12/31
	Review and update the pollutants of concern list	Annually by 12/31
	Develop and implement a set of pollution prevention measures that will reduce the discharge of pollutants in stormwater from the permittee-owned operations.	Annually by 12/31
	Visually inspect 100% of pollution prevention measures implemented at permittee-owned facilities	Annually by 12/31
	Develop and maintain written procedures that describe the frequency of inspections and how they will be conducted	Annually by 12/31
	Review and update the inspection procedures to address changes or additions to the pollution prevention measures.	Annually by 12/31
	Maintain a log of 100% of the inspections conducted annually and make the log available for review by the TCEQ	24 hrs.
	Perform maintenance of 100% of the structural controls which require maintenance.	Annually by 12/31

	Develop and maintain written procedures that define the frequency of inspections and how they will be conducted	Annually by 12/31
	Review and update the maintenance to address changes or additions to the pollution prevention measures.	Annually by 12/31

- End of Permit Term Goal: Continued implementation of Operation and Maintenance Program for municipally owned facilities, as outlined in chapter 5 of the Stormwater Guidance Manual.

Measurable Evaluation Criteria

- Monthly meeting agenda item for public involvement, necessary training, and education
- Monthly meeting minutes
- Updated chapter 5 of the GM
- Number of facilities inventoried

Interim Milestone for MCM 6.0

By the end of year 3, inventory of facilities and stormwater controls will be updated and recorded.

MCM 7.0 Industrial Stormwater Sources

Summary/Rationale

As a level 2b small MS4 Operator, there are no industrial stormwater requirements under the current permit.

MCM 8.0 Authorization for Construction Activities where the MS4 Operator is the Site Operator

Summary/Rationale

The MS4 Operator has chosen not to develop this optional measure at this time.

Part III - Pollutant of Concern Program

Background

Section 303(d) of the federal Clean Water Act requires all States to identify and list waters that do not meet, or are not expected to meet, applicable water quality standards. The standards describe the ways the water bodies are used and those descriptions are embodied in the updated *Texas Surface Water Quality Standards (TSWQS-TCEQ 2022)*. Most water bodies in and around the Houston-Galveston region must meet the standard for *contact recreation*. In order to meet this standard, the water body must be safe for swimming, wading by adults and children, canoeing, or other activities that involve direct contact with the water. While there are several sources of pollutants in the streams in and around Houston, the most predominant source is bacteria. The *Texas Surface Water Quality Standards* establish the following criteria for the designated uses:

Bacteria – Contact Recreation

- The geometric mean of *E-coli in freshwater* should not exceed 126 colony forming units (cfu) per 100 milliliter (ml).

For every listed water body that does not meet the standard, the State must develop a Total Maximum Daily Load (TMDL) for each pollutant that contributes to the impairment of the stream. A TMDL is a technical analysis that determines the amount of a particular pollutant that a water body can receive and still meet the applicable water quality standard. The TMDL document estimates how much the pollutant load must be reduced in order to comply with the standard.

A regulated MS4 Operator that discharges stormwater into an impaired water body with a TMDL, is required to develop a program and choose Best Management Practices (BMPs) that target the pollutants of concern as identified in the TMDL. The stormwater discharge does not have to discharge directly into the impaired water body, but if this discharge is located in the watershed where the TMDL was developed, permit conditions will apply. The BMPs chosen will focus on areas the MS4 Operator identifies as having the potential to be a cause of the pollutant of concern. Each BMP selected will have measurable goals, an implementation schedule and interim milestones will be set to assess program progress. A benchmark for the pollutant of concern will be identified by the MS4 Operator to assist in determining if the program is effective in addressing the pollutant of concern. Monitoring of progress toward achieving the benchmark is also required and will be included in the annual report using appropriate program indicators.

Watershed Description - Buffalo Bayou Above Tidal

The Buffalo Bayou watershed includes a segment designated as Buffalo Bayou above Tidal. Buffalo Bayou above Tidal is approximately 24 miles long and has a watershed area of approximately 358 square miles. It includes areas in Waller and Fort Bend Counties, however, most of the watershed is in Harris County. A unique feature to the Buffalo Bayou watershed is that two flood control reservoirs are located in the upper end of Buffalo Bayou above Tidal. Harris-Fort Bend Counties MUD 1 drains through a series of manmade channels and tributaries into Willow Fork (1014I) which flows into Buffalo Bayou/Barker Reservoir (1014B_01), one of these flood control reservoirs (Figure 1).

Impaired Water Body

The MS4 Operator is located in the Buffalo Bayou above Tidal watershed and TMDLs have been adopted by the TCEQ for this watershed. The TMDL for Buffalo Bayou above Tidal states that for most segments in the watershed a 95% reduction in both the Waste Load Allocation and the Load Allocation is necessary to meet the water quality standard.

TMDL - Buffalo and White Oak Bayous

The Texas Commission on Environmental Quality (TCEQ) adopted Eighteen Total Maximum Daily Loads (TMDLs) for bacteria in Buffalo and White Oak Bayous on April 8, 2009. The EPA approved the TMDL on June 11, 2009. The TCEQ approved the Bacteria Implementation Group's (BIG) I-Plan January 30, 2013. The EPA approved Addendum I to the TMDLs in August 2013. The EPA approved Addendum II to the TMDLs in July 2015. The TMDL identifies the segment that the MS4 Operator drains to as segment 1014B, Assessment Unit (AU) 1014B_01 (Table 2 from the Buffalo and White Oak TMDL document).

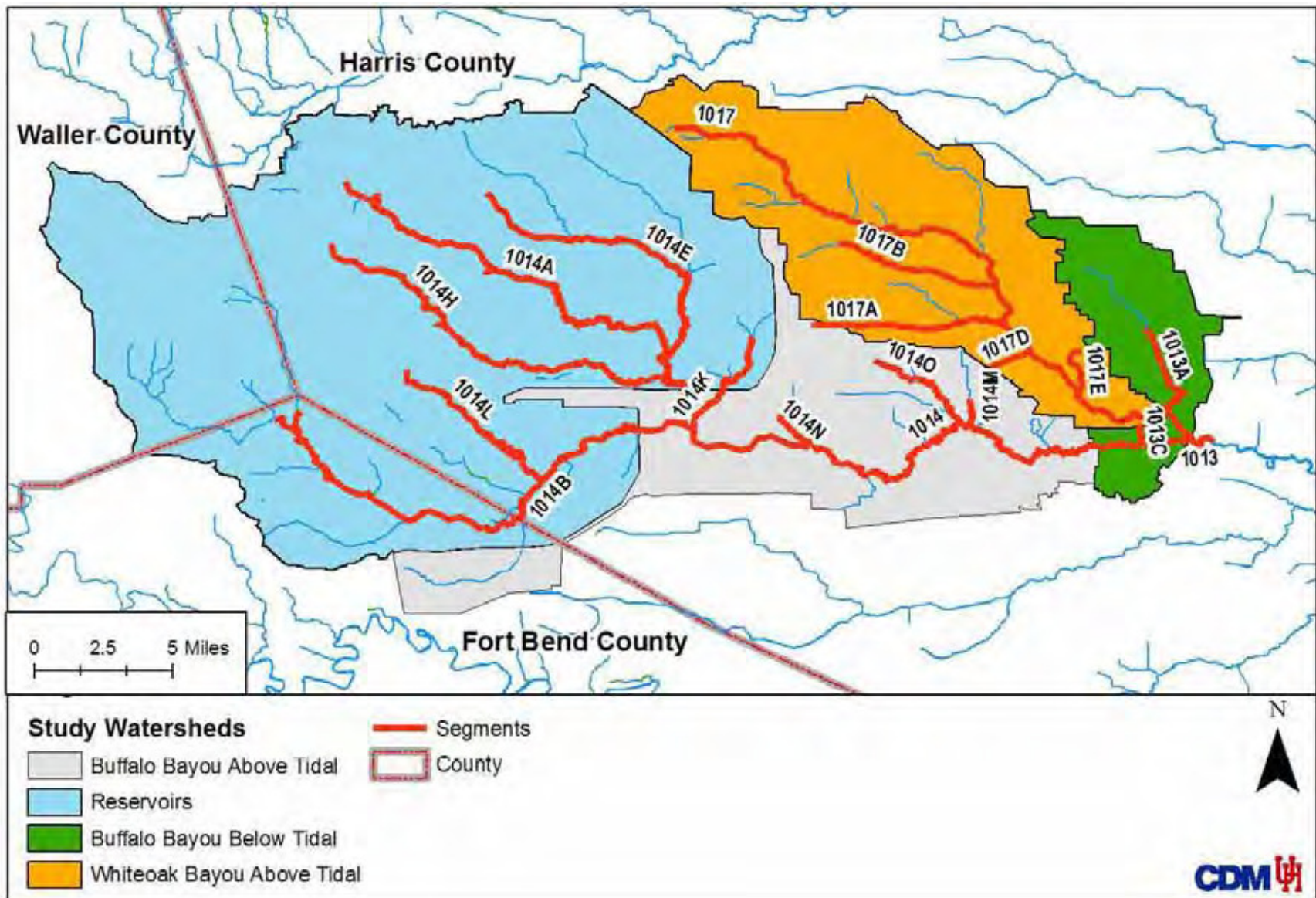


Figure 1 – Segments and Watersheds

The TMDL for bacteria identifies the possible sources of this impairment, one of which is pollution caused by stormwater runoff from urbanized areas. The Final TMDL allocations, as calculated, can be found Table 54 of the TMDL document of Buffalo and White Oak Bayous for Assessment Unit 1014B_01 (page 25).

Table 2. Water Bodies and Associated Watersheds

Segment Number	Segment Name	Watershed
1013	Buffalo Bayou Tidal	Buffalo Bayou Tidal
1013A	Little White Oak Bayou	
1013C	Unnamed Non-Tidal Tributary of Buffalo Bayou Tidal	
1014	Buffalo Bayou Above Tidal	Buffalo Bayou Above Tidal
1014A	Bear Creek	Reservoirs
1014B	Buffalo Bayou	
1014E	Langham Creek	
1014H	South Mayde Creek	
1014K	Turkey Creek	
1014L	Mason Creek	
1014M	Neimans Bayou (Newman Branch)	
1014N	Rummel Creek	
1014O	Spring Branch	
1017	Whiteoak Bayou Above Tidal	Whiteoak Bayou
1017A	Brickhouse Gully/Bayou	
1017B	Cole Creek	
1017D	Unnamed Tributary of Whiteoak Bayou	
1017E	Unnamed Tributary of White Oak Bayou	

Benchmarks for Pollutants of Concern

As outlined above, TXR040000 requires small MS4’s that discharge into an impaired water body with an approved TMDL, where stormwater has the potential to cause or contribute to the impairment, to identify a “Benchmark” for the pollutant of concern. While the benchmark has a numeric value, it is not a numeric effluent limitation, but rather a guideline for evaluating progress toward the goal of achieving the water quality standard for the stream. The establishment of the benchmark for the SWMP considered the following options, as outlined in the permit:

- If the MS4 is subject to a TMDL that identifies a Waste Load Allocation(s) (WLA) for permitted MS4 stormwater sources, then the SWMP may identify it as the benchmark. Where an aggregate allocation is used as a benchmark, all affected MS4 Operators are jointly responsible for progress in meeting the benchmark and shall (jointly or individually) develop a monitoring/assessment plan as required in Part II.D.4(a)(6) of the permit.
- Alternatively, if multiple small MS4s are discharging into the same impaired water body with an approved TMDL, with an aggregate WLA for all permitted stormwater MS4s, then the MS4s may combine or share efforts to determine an alternative sub-benchmark value for the pollutant(s) of concern (e.g., bacteria) for their respective MS4. The SWMP must clearly define this alternative approach and must describe how the sub-benchmark would cumulatively support the aggregate WLA. Where an aggregate benchmark value has been broken into sub-benchmark values for individual MS4s, each MS4 Operator is only responsible for progress in meeting its sub-benchmark value.

The MS4 Operator has elected to use the aggregate Waste Load Allocation (WLA) for all affected MS4s and will be jointly responsible for progress in meeting the benchmark with other MS4s located in the watershed and will develop a monitoring program as described in Part II.D.4(a)(6) of the TXR040000.

Sampling that has taken place to determine the TMDL for Buffalo Bayou used *E-coli* as the indicator bacteria for assessing contact recreation. The WLA for *E-coli* for Assessment Unit 1014B_01 is found in Table 54 of the TMDL document for Buffalo and White Oak Bayous.

Assessment Unit	TMDL (Billion MPN/day)	WLAWWTF (Billion MPN/day)	WLAStorm Water (Billion MPN/day)	LA (Billion MPN/day)	MOS (Billion MPN/day)
1013_01	1,574.77	1.19	267.95	1,305.63	0
1013A_01	1,379.94	1.19	234.66	1,144.09	0
1013C_01	102.08	1.19	16.37	84.52	0
1014_01	1,841.94	54.21	837.68	950.06	0
1014A_01	195.04	38.15	141.2	15.69	0
1014B_01	626.91	90.87	482.44	53.6	0
1014E_01	236.83	9.06	205	22.78	0
1014H_01	39.18	2.38	33.12	3.68	0
1014H_02	175.43	35.51	125.93	13.99	0
1014K_01	35.06	4.11	27.86	3.1	0
1014K_02	15.09	1.12	12.58	1.4	0
1014L_01	69.66	43.98	23.11	2.57	0
1014M_01	76.75	2.38	34.79	39.58	0
1014N_01	204.66	103.26	5.56	95.84	0
1014O_01	434.9	0.05	209.26	225.59	0
1017_01	173.57	108.09	58.94	6.55	0
1017_02	52.06	0.10	46.77	5.2	0
1017_03	149.47	2.38	132.38	14.71	0
1017_04	537.09	0.77	482.69	53.63	0

Table 54. Final TMDL Allocations for All Impaired Assessment Units at Wet-Flow (Critical) Conditions (TCEQ 2009)

The Benchmark for the pollutant of concern is the WLA stormwater as shown in Table 54 and is 482.44 Billion MPN/Day.

Implementation Plans (I-Plans)

In order to address the high levels of bacteria in and around the Houston area, the TCEQ asked stakeholder groups to convene and address the problems. Two separate groups were assembled. One group represented the watersheds in the Houston-Galveston Region and became known as the Bacteria Implementation Group (“BIG”), the other group represented Upper Oyster Creek and was simply known as the Upper Oyster Creek Implementation Group. While these were two distinct groups, they both consisted of representatives from city and county governments, resource agencies, business and agriculture, professional organizations, watershed groups and the public. The BIG started meeting in 2010 and met over the course of over 2 years to produce a document entitled “Implementation Plan for Seventy-Two Total Maximum Daily Loads for Bacteria in the Houston-Galveston Region.” This document was adopted by TCEQ on January 30, 2013. The EPA approved an addendum to the TMDLs in August 2013. The Implementation Plan (I-Plan) summarizes the TMDL’s that were adopted by the TCEQ in 2009. The BIG’s I-Plan outlines the potential sources of bacteria and dissolved oxygen, as well as implementation strategies that will be used to reduce these pollutants of concern over the next several years. While many of the ideas and strategies are intended for the entire Brays Bayou watershed, several of the implementation strategies are applicable to the MS4 Operator. The MS4 Operator will refer to information found in the I-Plan, and implement BMPs and programs as applicable for the sources from the MS4.

Sources of the Bacteria Impairment

The TMDL documents state the sources for indicator bacteria vary, and there is no single predominant source. Bacteria specific to humans, avian, and non-avian wildlife and domestic animals all accounted for appreciable portions of the loadings. The I-Plan summarizes information found in the TMDL documents for potential pollution sources. The MS4 Operator has reviewed the potential sources of bacteria as identified in the I-Plan as well as the strategies proposed to address these potential sources. I-Plan strategies are intended to be implemented on a watershed basis; however, some of the strategies do not apply within the jurisdiction of the MS4 Operator. The MS4 Operator has developed a Bacteria Program based on selected sources for bacteria that may occur within its jurisdiction.

Bacteria Specific Program Elements

- 1.0 Waste Water Treatment Facilities (WWTFs) (facility monitoring/reporting/assessment)
- 2.0 Sanitary Sewer System
- 3.0 Illicit Discharges and Dumping
- 4.0 Residential Education
- 5.0 Animal Sources

The MS4 Operator has chosen the following Best Management Practices that focus on the impairment of concern for the selected program elements.

1.0 - WWTF discharge monitoring and reporting and facilities

Description

Non-compliant WWTFs can be sources of bacteria in the receiving stream. With the exception of those facilities using an ultraviolet (UV) disinfection system, WWTFs were, historically, not required to monitor for bacteria. As mentioned in the BIG's I-Plan, "results from limited monitoring of bacteria in the BIG region suggests that while levels of indicator bacteria in effluent from individual WWTFs is typically low, at any given time approximately 5 percent to 10 percent of the facilities can be found to be exceeding the single-sample criterion for *E-coli*." The goal of this program element is to keep the MS4 Operator aware of *E-coli* limits at the WWTF throughout the permit term. Training of the MS4 Operator's consultants, including the engineer and District Operator is an integral part of this program element.

BMP 1.1 - Monitor permit limits for the WWTF

The MS4 Operator has enlisted a group of professionals to manage its day-to-day business activities. Of these professionals, the District Operator is in charge of the daily operations and maintenance of the WWTF. Reporting compliance with permit conditions takes place on a monthly basis. *E-coli* limits are now required in WWTF permits. The TCEQ has placed these limits in all new WWTF permits where *E-coli* is the impairment of concern. The MS4 Operator will require written regular reporting of *E-coli* limits on any operations report delivered to the MS4 Operator. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Introduce the need to comply with TXR040000 to the MS4's consultant team.

BMP/Activity	Quantifiable Target/Objective	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Years 2-5: Review existing operations reports to ensure Discharge Monitoring Reports (DMRs) information is included in the report.

BMP/Activity	Quantifiable Target/Objective	Deadline
Review monthly operations reports	Ensure <i>E-coli</i> values are within permits	Monthly

- End of permit term Goal – MS4 Operator will be aware of *E-coli* limits in its WWTF permit and will receive regular reports with DMR values included in the District Operator’s report.

Measurable Criteria

- Meeting agenda to include operations report
- District Operator’s reports includes *E-coli* limits for WWTF

BMP 1.2 Facilities Assessment

The MS4 Operator enlists a group of professionals to manage its day-to-day business activities. Of these professionals, the engineer is in charge of the design and construction of the MS4 Operator’s WWTF. Regular reporting concerning the compliance with permit conditions, as well as on-going conversations with other members of the consultant team, help assess the operating condition of the WWTF. As mentioned in the BIG’s I-Plan, “bacteria monitoring may reveal WWTFs that are not meeting effluent limits. Upgrades or repairs, as appropriate, will be the responsibility of each individual facility owner in order to comply with individual permits.” The MS4 Operator will continue to review conditions of the WWTF with its consultant team on a periodic basis to determine if problems exist that may lead to non-compliance with effluent conditions, especially the *E-coli* limit. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Introduce the need to comply with TXR040000 to the MS4’s consultant team.

BMP/Activity	Quantifiable Target/Objective	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Years 2-5: Report to the MS4 Operator on a regular basis any deficiencies of the WWTF that may lead to non-compliance, especially with *E-coli*.

BMP/Activity	Quantifiable Target/Objective	Deadline
Review monthly engineering reports	Ensure deficiencies of the WWTF are identified	Monthly

- End of permit term Goal – MS4 Operator will be aware of the condition of its WWTF and its ability to comply with permit effluent limitations.

Measurable Criteria

- Meeting Agenda to include engineering reports
- Engineer/ District Operator reports from regular meetings

Interim Milestones

By the end of year 2, ensure the District Operator’s report includes monthly *E-coli* values.

2.0 – Sanitary Sewer System

Description

Sanitary sewer system overflows (SSOs) may be a source of bacteria in stormwater runoff within the MS4 Operator’s jurisdiction. The BIG’s I-Plan mentions strategies for SSOs. The EPA has concluded that SSOs contribute to bacteria loading in nearly all impaired streams, but may or may not be a primary source of loading. These overflows can originate from individual homes, businesses, as well as MS4 Operator-owned facilities. Overflows may be caused by blockages in the sanitary sewer line, line breaks, defects that allow stormwater and groundwater to infiltrate into the system, lapses in operation, inadequate design and construction, power failures, and even vandalism. The goal of this program element is to review and update existing maps of the sanitary sewer system, as well as monthly operations reports and incorporate changes necessary for proper operation and maintenance of the system. This element includes a review of monthly reports from the District Operator on the physical system, including lift stations. Components of the program will be reviewed over the permit term and updated as necessary.

BMP 2.1 Mapping of Sanitary Sewer System

Description

An accurate map of the MS4 Operator’s sanitary sewer system is critical to proper operations and reporting of overflows. The MS4 Operator will review existing maps of the sewer system and determine the need for updates of existing maps. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Introduce the need to comply with TXR040000 to the MS4’s consultant team.

BMP/Activity	Quantifiable Target/Objective	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Years 2-5: Update existing maps of the MS4 Operator’s sanitary facilities, including lift stations.

BMP/Activity	Quantifiable Target/Objective	Deadline
Review and update sanitary sewer map	Produce an annual updated sanitary sewer map	Dec. 31 every permit year

- End of permit term goal – MS4 Operator will have an accurate overall map of the sanitary sewer system to aid in the proper management of the MS4 Operators wastewater flows.

Measurable Criteria

- Meeting Agenda/minutes
- Updated overall sanitary sewer system map

BMP 2.2 Reporting of Sanitary Sewer Overflows (SSOs)

Description

Reporting of events that could discharge the pollutant of concern is critical to the proper management of the sanitary sewer system. Current EPA regulations specify reporting requirements for noncompliance, including SSOs, in 40 C.F.R. § 122.41 (1) (6) and (7) (2011). Reporting at regular meetings of any applicable overflows and/or stoppages in the system, sanitary lift station operations, as well as critical information about operations at the WWTF, will aid in the reduction of bacteria discharges into the receiving stream. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Introduce the need to comply with TXR040000 to the MS4’s consultant team.

BMP/Activity	Quantifiable Target/Objective	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Years 2-5: Review operations reports for specific information that pertains to the discharge of the pollutant of concern from SSOs.

BMP/Activity	Quantifiable Target/Objective	Deadline
Review all monthly operations reports	Ensure reporting of 100% of SSOs is included on monthly reports	Monthly

- End of permit term goal – MS4 Operator will prepare a monthly operations report that includes information on SSOs.

Measurable Criteria

- Meeting Agenda/minutes
- Completed/updated District Operator’s report with SSO information included

BMP 2.3 Facilities Assessment

Description

The BIG’s I-Plan suggested to the TCEQ that all sanitary systems should be required to develop and implement a Utility Asset and Management Program (UAMP) (Implementation Activity 2.1). As previously stated, the MS4 Operator enlists a group of professionals to manage its day to day business activities. The engineer is the professional in charge of the design and construction of the MS4 Operator’s sanitary sewer system. Regular reporting of the compliance with permit conditions, as well as on-going conversations between the engineer, the District’s operator and the attorney will help assess the operating condition of the sanitary sewer system. The MS4 Operator will continue to review conditions of the sanitary sewer system with these 3 consultants on a monthly basis to determine if problems exist that may lead to non-compliance with effluent conditions. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Introduce the need to comply with TXR040000 to the MS4’s consultant team.

BMP/Activity	Quantifiable Target/Objective	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Year 2: Conduct review of 100% of the sanitary sewer system to identify areas for improvement. Initiate all feasible improvement projects by the end of the permit term.

BMP/Activity	Quantifiable Target/Objective	Deadline
Review sanitary sewer system	Conduct review of 100% of the sanitary sewer system to identify areas for improvement.	End of year 2

- Years 2-5: Review reporting program that aids management and operations personnel in determining the overall conditions of the sanitary sewer system.

BMP/Activity	Quantifiable Target/Objective	Deadline
Review all monthly operations reports	Ensure reporting of damages to sanitary sewer system, lift stations, and the WWTF is included on monthly reports	Monthly

- End of permit term Goal – MS4 Operator will be aware of the condition of its sanitary sewer system to ensure continued compliance with all permit conditions, including SSOs. Initiate all feasible improvement projects by the end of the permit term.

Measurable Criteria

- Meeting Agenda/minutes
- Monthly District Operator’s Report
- Annual capital improvement budget

BMP 2.4 Reporting and maintenance of Lift Station Functions

Description

The proper design and maintenance of lift stations located within the MS4 Operator’s jurisdiction is critical for compliance with the bacteria program. Lift stations can fail, as demonstrated by the many power outages during 2017 when Hurricane Harvey hit the Houston Metropolitan Area. There were many power outages that led to discharge of untreated wastewater into the receiving streams. Lift stations may also fail due to mechanical failure, vandalism and old age. This program element includes a review of existing lift stations with the goal of developing an overall operations and inspection plan to be implemented on an annual basis. By the end of the permit term, the MS4 Operator will conduct weekly lift station inspections at 100% of the MS4 owned and operated lift stations each year. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Introduce the need to comply with TXR040000 to the MS4’s consultant team.

BMP/Activity	Measurable Goal	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Year 2: Prepare an updated inventory of existing lift stations that are managed by the District Operator, including the ability to operate under loss of power conditions.

BMP/Activity	Measurable Goal	Deadline
Audit 100% of MS4 Operator-owned lift stations	Prepare an overall map/list showing locations of 100% of MS4 Operator-owned lift stations	Dec 31, 2026
Analyze 100% of MS4 Operator-owned lift stations	Determine lift station capability to operate under loss of power conditions	Dec 31, 2026

- Years 3-5: Review lift station operations on a monthly basis to ensure proper operations and maintenance, including the capability to operate under loss of power conditions.

BMP/Activity	Measurable Goal	Deadline
Review monthly District Operator's report	Ensure proper operation and maintenance of 100% of MS4 Operator-owned lift stations	Monthly
Lift Station Inspections	Conduct weekly lift station inspections at 100% of the MS4 owned and operated lift stations each year	End of year 3

- End of permit term goal – MS4 Operator will have a complete inventory of MS4 Operator-owned lift stations, including the status of ability of each lift station to operate under loss of power conditions. Weekly lift station inspections will begin by the end of year 3.

Measurable Criteria

- Meeting agenda/minutes
- Map/list of sanitary lift stations located within the MS4 Operator's jurisdiction
- Monthly District Operator's report, including sanitary lift station operations
- Lift station inspections

BMP 2.5 Sanitary Sewer Use Requirements

Description

Whether the MS4 Operator discharges to another WWTF (subscriber system), or owns and operates its own WWTF, the proper use of the sanitary sewer system by all residents within the MS4 Operator's jurisdiction is critical for compliance with stream standards. This program element includes a review of existing rules and regulations of the MS4 Operator, including applicable subscriber system contracts, in order to ensure proper use of the system. Emphasis will be placed on rules that govern the ownership and operations of grease traps, grit traps and the discharge of fats, oils and grease into the sanitary

system. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Introduce the need to comply with TXR040000 to the MS4’s consultant team.

BMP/Activity	Quantifiable Target/Objective	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025

- Year 2: Identify/update applicable subscriber system(s) to the WWTF. Ensure contracts are in place for outside subscribers to the WWTF.

BMP/Activity	Quantifiable Target/Objective	Deadline
Identify subscribers that use the WWTF	Ensure 100% of subscribers to the WWTF are identified	Dec 31, 2026
Review existing subscriber contracts	Ensure subscriber contracts address the proper operation of grease traps, grit traps, and the discharge of fats, oils, and greases (FOG)	Dec 31, 2026

- Years 3-5: Review the MS4 Operator’s Rate Order/rules that pertain to the proper use of the sanitary sewer system. The review will ensure there are rules that govern the ownership of grease traps, grit traps and the discharge of fats, oils and grease into the sanitary system.

BMP/Activity	Quantifiable Target/Objective	Deadline
Review Rate Order/rules	Ensure rules are in place regarding ownership of grease traps, grit traps, and FOG	Dec 31 every permit year

- End of permit term goal – MS4 Operator will have adequate rules and contracts in place to ensure proper use of the sanitary system by all parties, including subscriber systems.

Measurable Criteria

- Meeting agenda/minutes
- Rate Order language that addresses proper use of the MS4 Operator’s sanitary sewer system
- Copy of subscriber system contracts

Interim Milestones

By the end of year 2, each lift station will be inventoried. The operations report will include information on SSOs that have occurred in the system. By the end of year 3 the MS4 Operator’s Rate Order will be reviewed to ensure proper use of the MS4 Operator’s sanitary sewer system. Weekly lift station inspections will begin by the end of year 3.

3.0 – Illicit Discharge Detection & Elimination (IDDE)

Description

As reported in the BIG’s I-Plan, “Many of the TMDLs in the BIG region indicate that illicit discharges and dumping account for significant dry-weather bacteria loadings. As described and developed in MCM 3 of this SWMP, the MS4 Operator has developed a program in its Stormwater Guidance Manual to detect, investigate, and eliminate illicit discharge into the MS4. Emphasis on bacteria laden discharges and spills, such as from grease traps, grit traps and waste haulers will be the focus during this permit term. The goal of the program is to eliminate illicit discharges to the extent allowable under State and local law. Training of the MS4 Operator’s consultants is an integral part of this program element.

BMP 3.1 Illicit Discharge & Dumping

Description

Illicit discharge and dumping can introduce pollutants both directly and indirectly into the waterways. Sources can include illegal connections to the storm sewer, as well as discharges directly into the water body. As described in MCM 3, the SWMP will include a current map of the MS4 Operator’s storm sewer system, as well as a reporting mechanism on cleanbayous.org. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: The stormwater consultant will explain the need to comply with the new conditions of the 2024 TXR040000 to the MS4 Operator consultants and customers in attendance at a regularly scheduled meeting of the Board of Directors. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within three business days.

BMP/Activity	Measurable Goal	Deadline
Attend Board of Directors meeting	Outline TXR040000 new permit terms	Dec 31, 2025
Monitor website for complaints	Respond to 100% of complaints	3 business days

- Year 2: The Stormwater consultant will review and update the District’s IDDE Program. This is necessary to comply with new permit conditions in the 2024 TXR040000. The criteria used are the conditions in the TXR040000. Action items as a result of the review, will include updated material in the District’s GM. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction.

Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session per year relative to IDDE and other SWMP goals. The training sessions will be performed during regularly scheduled monthly Board meetings for MS4 Operator consultants and District customers in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2026
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2026
Monitor website for complaints	Respond to 100% of complaints	3 business days
Training & Education on IDDE Program	Hold at least 1 training session per year	Dec 31, 2026

- Year 3: The Stormwater consultant will review and update the District’s IDDE Program. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session per year relative to IDDE and other SWMP goals. The training sessions will be performed during regularly scheduled monthly Board meetings for MS4 Operator consultants and District customers in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2027
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2027
Monitor website for complaints	Respond to 100% of complaints	3 business days
Training & Education on IDDE Program	Hold at least 1 training session per year	Dec 31, 2027

- Year 4: The Stormwater consultant will review and update the District’s IDDE Program. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session per year relative to IDDE and other SWMP goals. The training sessions will be performed during regularly scheduled monthly Board meetings for MS4 Operator consultants and District customers in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2028
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2028
Monitor website for complaints	Respond to 100% of complaints	3 business days
Training & Education on IDDE Program	Hold at least 1 training session per year	Dec 31, 2028

- Year 5: The Stormwater consultant will review and update the District’s IDDE Program. Annually review and update the stormwater conveyance map based on changes to the storm sewer system caused by new construction and/or reconstruction. Respond to all customer reports of illegal dumping and/or illicit discharges as generated by the cleanbayous.org complaint module within 3 business days. The MS4 Operator will hold at least 1 training session per year relative to IDDE and other SWMP goals. The training sessions will be performed during regularly scheduled monthly Board meetings for MS4 Operator consultants and District customers in attendance at the meeting.

BMP/Activity	Measurable Goal	Deadline
Review & update chapter 2 of GM	Chapter 2 will comply with new IDDE provisions of TXR040000	Dec. 31, 2029
Review and update stormwater conveyance map	Produce an annual updated stormwater conveyance map	Dec. 31, 2029
Monitor website for complaints	Respond to 100% of complaints	3 business days
Training & Education on IDDE Program	Hold at least 1 training session per year	Dec 31, 2029

- End of Permit Term Goal: The IDDE Program will be updated and implemented. A comprehensive map of the MS4’s stormwater conveyance system will be up to date.

Measurable Evaluation Criteria

- Monthly meeting agenda item for public involvement, necessary training, and education
- Monthly meeting minutes
- Updated chapter 2 of the GM
- Updated stormwater conveyance map

Interim Milestones

By the end of year 3, 3 training sessions on chapter 2 of the GM will be held for District consultants and customers in attendance of the Board meeting where training was held. The stormwater conveyance map will be updated annually.

4.0 - Residential/Public & MS4 Operator Consultant Education

Description

MCM 1 in this SWMP is designed to be an overall public education program that is used to inform the public about the impacts that pollution in stormwater run-off can have on water quality, hazards associated with illegal discharges and improper disposal of waste, and ways to minimize the impact on stormwater quality. This program element is aimed at changing public behavior through educational efforts. Specific educational material will continue to be developed, placing emphasis on possible sources of bacteria, including bacteria from residential sites during stormwater runoff events, bacteria from fats, oils and greases that clog drains and sanitary lines, pet waste, and general lawn care practices. Public education material will continue to focus on why bacteria is an issue in our waterways and strategies that can reduce bacteria in these waterways. This program element will continue to take advantage of existing public education programs and materials. Material will continue to be distributed to residents within the MS4 Operator’s jurisdiction and will be posted on the aforementioned website for public viewing. Training of the MS4 Operator’s consultants and the public is an integral part of this program element.

BMP 4.1 MS4 Operator Consultant & Public Training

Description

The training program is directed at MS4 Operator consultants and the public who attend regularly scheduled Board meetings. Training sessions will continue to be used to educate these parties on the requirements of TXR040000, concentrating on the bacteria program elements of the SWMP. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: MS4 Operator consultants who regularly attend District Board meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education, Outreach and Involvement goals of the SWMP during at least one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2025

- Year 2: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education, Outreach and Involvement goals of the SWMP during at least one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2026

- Year 3: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education, Outreach and Involvement goals of the SWMP during at least one regular meeting in the calendar year

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2027

- Year 4: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may attend at District Board meetings, will be educated on the Public Education, Outreach and Involvement goals of the SWMP during at least one regular meeting in the calendar year

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2028

- Year 5: MS4 Operator consultants who regularly attend monthly District meetings and members of the public, who may be in attendance at District Board meetings, will be educated on the Public Education, Outreach and Involvement goals of the SWMP during at least one regular meeting in the calendar year.

BMP/Activity	Measurable Goal	Deadline
Training & Education	Hold at least 1 training session per year	Dec 31, 2029

End of Permit Term Goal: All MS4 Operator consultants and members of the public who were in attendance at regular board meetings will be educated on the Public Education, Outreach and Involvement goals of the SWMP and the requirements of TXR040000.

Measurable Evaluation Criteria

- Meeting agenda
- Number of training sessions held
- Training material distributed at meetings
- Minutes of the meeting

Interim Milestones

At least two training sessions on bacteria specific topics will be held by the end of year 2. At least one design for bacteria specific training material will be selected by the end of year 2.

5.0 – Animal Sources

Description

Animals that use open space and other green areas within the MS4 Operator’s jurisdiction could be a significant source of bacteria entering the receiving stream. These sources include pets such as dogs, cats, horses and other types of domestic animals. The sources also include many species of wild animals that travel and use these open spaces. This program element is aimed at changing public behavior relating to the proper use of these open spaces and green areas. Public education will include mail outs and/or other educational material that may be developed over the term of the permit. Educational material will be regularly distributed, as deemed necessary by the MS4 Operator, to residents within the MS4 Operator’s jurisdiction and will be posted on cleanbayous.org for public viewing. The clear, specific, and measurable goals for this activity are outlined in the tables below.

Implementation Schedule

- Year 1: Review the overall public education program with an emphasis on material describing the proper disposal of pet waste.

BMP/Activity	Measurable Goal	Deadline
Review public education program	Design a utility bill insert specific to pet waste.	Dec. 31, 2025

- Year 2: Approve design for the year 2 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to all District customers. Perform 1 mailing to MS4 Operator customers. Post on the website.

BMP/Activity	Measurable Goal	Deadline
Presentation of educational material options at District board meeting	Approve design for utility bill insert	Dec 31, 2026
Mail approved UBI to all District customers	Mail all District customers annually in one mail out	Dec. 31, 2026
Post educational material on website	The website is updated annually	Dec. 31, 2026

- Year 3: Approve design for the year 3 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to all District customers. Perform 1 mailing to MS4 Operator customers. Post on the website.

BMP/Activity	Measurable Goal	Deadline
Presentation of educational material options at District board meeting	Approve design for utility bill insert	Dec 31, 2027

Mail approved UBI to all District customers	Mail all District customers annually in one mail out	Dec. 31, 2027
Post educational material on website	The website is updated annually	Dec. 31, 2027

- Year 4: Approve design for the year 4 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to all District customers. Perform 1 mailing to MS4 Operator customers. Post on the website.

BMP/Activity	Measurable Goal	Deadline
Presentation of educational material options at District board meeting	Approve design for utility bill insert	Dec 31, 2028
Mail approved UBI to all District customers	Mail all District customers annually in one mail out	Dec. 31, 2028
Post educational material on website	The website is updated annually	Dec. 31, 2028

- Year 5: Approve design for the year 5 education material, in the form of a utility bill insert (UBI), to be distributed in an annual mailing to all District customers. Perform 1 mailing to MS4 Operator customers. Post on the website.

BMP/Activity	Measurable Goal	Deadline
Presentation of educational material options at District board meeting	Approve design for utility bill insert	Dec 31, 2029
Mail approved UBI to all District customers	Mail all District customers annually in one mail out	Dec. 31, 2029
Post educational material on website	The website is updated annually	Dec. 31, 2029

- End of Permit Term Goal: At least 75% of all customers within the MS4 Operator's jurisdiction will receive educational material annually. Updated educational information and the SMWP will be available on the website.

Measurable Evaluation Criteria

- Educational material approved annually
- Educational material distributed annually
- Educational material posted on website annually

6.0 – Monitoring of Progress towards the Benchmark

Description

The MS4 Operator will continue to monitor progress in achieving the listed benchmark and improving water quality and shall report this progress in each annual report. Based on an evaluation of the BMPs chosen for each program element, the MS4 Operator will assess program success and progress towards achieving the benchmark. Progress will be reported using program indicators such as number of educational opportunities conducted, number of training sessions held, etc. The MS4 Operator is part of an I-Plan that has been prepared for the watershed. The MS4 Operator will review the effectiveness of the program to determine the need to change any program elements or BMPs and will make these decisions on an annual basis. The clear, specific, and measurable goals for this activity are outlined in the table below.

BMP/Activity	Quantifiable Target/Objective	Deadline
Prepare annual report	Monitor progress towards achieving the benchmark	Dec. 31 every permit year.
Stormwater consultant to attend TMDL/I-Plan meetings	Keep informed on overall watershed progress relative to the bacteria program	Dec. 31 every permit year.

Part IV – Appendices

Appendix A
“References”

References

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Appendix B

“Location Map – Harris Fort Bend Counties MUD No. 1 Aerial”

Appendix C
“TXR040000”