



City of Pearland

3519 Liberty Drive
Pearland, Texas 77581
Tel: 281.652.1637
pearlandtx.gov

Date: March 22, 2023

Texas Commission on Environmental Quality
Stormwater & Pretreatment Team Leader (MC-148)
P.O. Box 13087
Austin, Texas 78711-3087
Re: Phase II MS4 Annual Report Transmittal for

City of Pearland TPDES Authorization: **TXR040208**

Brazoria-Fort Bend County Municipal Utility District No. 1 TPDES Authorization: **TXR040511**

Brazoria County Municipal Utility District No. 17 TPDES Authorization: **TXR040449**

Brazoria County Municipal Utility District No. 19 TPDES Authorization: **TXR040594**

Brazoria County Municipal Utility District No. 23 TPDES Authorization: **TXR040506**

Brazoria County Municipal Utility District No. 26 TPDES Authorization: **TXR040507**

Brazoria County Municipal Utility District No. 28 TPDES Authorization: **TXR040508**

Brazoria County Municipal Utility District No. 34 TPDES Authorization: **TXR040509**

Brazoria County Municipal Utility District No. 35 TPDES Authorization: **TXR040510**

Harris County Municipal Utility District No. 509 TPDES Authorization: **TXR040512**

Lower Kirby Pearland Management District TPDES Authorization: **TXR040622**

Pearland Municipal Management District No.1 TPDES Authorization: **TXR040623**

Dear Team Leader:

This letter serves to transmit the required annual report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization Number TXR040208 for the City of Pearland, TXR040511 for BFBC MUD 1, TXR040449 for BC MUD 17, TXR040594 For BC MUD 19, TXR040506 for BC MUD 23, TXR040507 for BC MUD 26, TXR040508 for BC MUD 28, TXR040509 for BC MUD 34, TXR040510 for BC MUD 35, TXR040512 for HC MUD 509, TXR040622 for Lower Kirby Pearland Management District, and TXR040623 for Pearland Municipal Management District 1.

The annual report is for Year 4 - 01/01/2022-12/31/2022

A separate Notice of Change has not been submitted based on the fact that changes have not been proposed for the next permit year.

As required by the general permit, a copy of the report has been mailed to the TCEQ's regional office 12 in Houston, Texas.

Sincerely,

Thomas M. Knox III, P. E., C.F.M.
Assistant City Engineer
City of Pearland

February 21, 2023

Texas Commission on Environmental Quality
Stormwater & Pretreatment Team Leader (MC-148)
P.O. Box 13087
Austin, Texas 78711-3087

Re: Phase II MS4 Annual Report Transmittal for
City of Pearland

TPDES Authorization: **TXR040208**
Brazoria-Fort Bend County Municipal Utility District No. 1
TPDES Authorization: **TXR040511**
Brazoria County Municipal Utility District No. 17
TPDES Authorization: **TXR040449**
Brazoria County Municipal Utility District No. 19
TPDES Authorization: **TXR040594**
Brazoria County Municipal Utility District No. 23
TPDES Authorization: **TXR040506**
Brazoria County Municipal Utility District No. 26
TPDES Authorization: **TXR040507**
Brazoria County Municipal Utility District No. 28
TPDES Authorization: **TXR040508**
Brazoria County Municipal Utility District No. 34
TPDES Authorization: **TXR040509**
Brazoria County Municipal Utility District No. 35
TPDES Authorization: **TXR040510**
Harris-Brazoria Counties Municipal Utility District No. 509
TPDES Authorization: **TXR040512**
Lower Kirby Pearland Management District
TPDES Authorization: **TXR040622**
Pearland Municipal Management District No.1
TPDES Authorization: **TXR0400623**

Dear Team Leader:

This letter serves to transmit the required annual report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization Number TXR040208 for the City of Pearland, TXR040511 for BFBC MUD 1, TXR040449 for BC MUD 17, TXR040594 For BC MUD 19, TXR040506 for BC MUD 23, TXR040507 for BC MUD 26, TXR040508 for BC MUD 28, TXR040509 for BC MUD 34, TXR040510 for BC MUD 35, TXR040512 for HBC MUD 509, TXR040622 for Lower Kirby Pearland Management District, and TXR040623 for Pearland Municipal Management District 1.

The annual report is for Year 4 - 01/01/2022-12/31/2022

A separate Notice of Change has not been submitted based on the fact that changes have not been proposed for the next permit year. As required by the general permit, a copy of the report has been mailed to the TCEQ's regional office 12 in Houston, Texas.

Sincerely,

Justin Klump
Municipal Consultant

Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

Authorization Number: **TXR040208**

Reporting Year: 4

Annual Reporting Year Option Selected by MS4:

Calendar Year: X

Permit Year: N/A

Fiscal Year: N/A Last day of fiscal year: (N/A)

Reporting period beginning date: (month/date/year) 01/01/2022

Reporting period end date: (month/date/year) 12/31/2022

MS4 Operator Level: 4

Name of MS4: City of Pearland

Contact Name: Rajendra Shrestha Telephone Number: (281) 652 - 1649

Mailing Address: 2016 Old Alvin Rd, Pearland Texas 77581

E-mail Address: rshrestha@pearlandtx.gov

A copy of the annual report was submitted to the TCEQ Region YES X NO

Region the annual report was submitted to: TCEQ Region 12

B. Status of Compliance with the MS4 GP and SWMP

1. Provide information on the status of complying with permit conditions:
(TXR040000 Part IV.B.2)

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	X		SWMP submitted by deadline and has provisional coverage until final approval.
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		Year 3 annual report has been submitted.
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.).	X		SWMP and year 3 annual report were submitted on time. No outstanding deficiencies.
Permittee conducted an annual review of its SWMP in conjunction with preparation of the annual report	X		SWMP was reviewed per the TXR040000 instructions.

Note:

The MS4 Operator's year 4 annual report reflects the BMPs and MCMs as depicted in the updated SWMP. Some of the BMPs/MCMs were not strictly enforced during year 4 as the SWMP has not been approved by TCEQ and adopted by the City.

2. Provide a general assessment of the appropriateness of the selected BMPs. You may use the table below to meet this requirement (**see Example 1 in instructions**):

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
1,2	Distribute Education Material	<p style="text-align: center;">Yes.</p> <p>The City developed and distributed educational material regarding stormwater pollution prevention and the hazards associated with illegal discharges and improper disposal of waste.</p> <p style="text-align: center;">Topics included:</p> <ul style="list-style-type: none"> A. "Easy Things You Can Do Every day to Protect Our Water" B. "A guide to the proper use of storm sewer system" C. "Fight the Fog (Fats, Oils, and Greases)" D. "Six Ways to Take Care of Texas" E. "Let's Tackle the Grease" F. "Clean Pipes are Green Pipes" G. "Defend your Drain." H. "Put the Waste in Its Place" I. "After the Storm" J. "Cease the Grease" K. "Swimming Pool Discharge Guide" L. "Protect Water Supply" coloring books M. "Unblocktober" Educational Videos N. "Edu-Katie" Educational Videos <p style="text-align: center;">Methods of distribution included:</p> <p>Community Events such as Spring Fest, Earth Day, Neighborhood Night Out, Trick or Treat Trail, & Fire Station #4 Open House Available at City Hall Annex. Available for Recycling Center Visitors. City Utility Billing Inserts. Available in the City's website (Stormwater Management Webpage). Social Media</p> <p style="text-align: center;">Target audiences included:</p> <ul style="list-style-type: none"> General Public/Residents – A, B, H, M, & N City Employees – All except L School Children – A, B, L, M & N Commercial properties and restaurants employees - C Construction contractors – E & H

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
		Pool Owners and Pool Contractors- K
1,2,3	Stormwater Reporting by the Public	<p>Yes.</p> <p>Giving the public an avenue to report instances of pollution allows for a more comprehensive approach to managing the quality of stormwater.</p> <p>The City utilizes the Public Works emergency phone number to allow its citizens the opportunity to report stormwater pollution issues. This phone number can be found on the City’s website and on its utility bills. In addition, the City has made the app “Connect to Pearland” available for residents to report code violation issues including stormwater concerns. This can also be completed on the city website (same as the app).</p>
1	Public Involvement Opportunities	<p>Yes.</p> <p>Allowing for public involvement allows for a more comprehensive approach to managing the quality of stormwater.</p> <p>Keep Pearland Beautiful (KPB) organization provides volunteer opportunities for special events and programs. These programs provide volunteer opportunities for both kids and adults. KPB had an Arbor Day Tree giveaway in which 300 trees were distributed on January 22, 2022. The Urban Forester had an Arbor Day poster contest in October and there were 750 participants. There was also an Arbor Day Tree giveaway on November 4th & 5th in which there were 350 participants. The Cigarette Litter Awareness day was held on February 19, 2022 which collected 11,460 cigarette butts and 3 vapes at 20 intersections within Pearland. There were 142 volunteer hours put in by 48 volunteers. The Summer (September 17, 2022) and Fall (November 5, 2022) Clean-up days on for the year 2022 were productive in cleaning 26 road miles with 397 volunteers and collecting 2,087 pounds of trash. Winter Litter Cleanup was February 5, 2022 in which there were 76 volunteers that collected 138 pounds of trash in 8 miles. The Pearland Waterways Cleanup event was held on March 12, 2022 and cleaned 1.3 miles of Mary’s Creek with 18 volunteers that collected 177 pounds of trash and 23 pounds of recycling. Don’t Mess with Texas Trash-Off was</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
		<p>on April 2, 2022 where 18 miles were cleaned by 168 volunteers. The volunteers retrieved 156 pounds of trash, 2,024 cigarette butts, 6 vapes/cartridges, and 36 PPE masks. The Earth Day Event was held on April 23, 2022 in which 400 participants checked in. There were 18 Environmental Education Vendors and 113 volunteers. In December, there was an Urban Forestry Parade and there were 25 participants. A Cease the Grease Program distributed 350 FOG Brochures and KPB posted on Social Media.</p> <p>In addition, the Natural Resources Manager taught 2 Texas Master Naturalist training classes that had 30 adults in attendance for each class. The Natural Resources Staff provided 134 environmental education programs and events attended by 3,638 participants. There have also been 4.5 acres of wildflowers on the sloped bank of the JHEC pond and there were 300 native plants installed for the purpose of habitat restoration and enhancement which were grown inhouse from locally collected see by city staff and volunteers. Invasive plant control was implemented for approximately 12 acres. Habitat management techniques were applied to approximately 25 acres of the city parks for the benefit of promoting natural land.</p>
2,5	Storm Sewer System Map & Facility Inventory	<p style="text-align: center;">Yes.</p> <p>A storm sewer map and inventory of facilities aides in the management of the storm sewer system and City-owned facilities.</p> <p>The storm sewer system map has been updated to reflect the most recent condition of storm sewer system in the City. This document is a living document and being updated as new facilities are added. In addition, City’s GIS website shows the utilities, such as storm sewer system, detention ponds, sanitary sewer systems, waterlines, lift stations, and treatment plants etc. Outfalls and receiving streams are identifiable on the map as well.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
2	Illicit Discharge and Spill Inspection, Investigation, and Response	<p style="text-align: center;">Yes.</p> <p>Inspecting, investigating and responding to illicit discharges and spills helps to minimize illicit discharges and spills from entering the storm sewer system.</p> <p>The following programs are currently in place to prevent undesirable discharge from leaving the drainage system:</p> <p>Fire Marshal / Emergency Management, Code Enforcement Department Investigation, Grease Interceptor Maintenance and Inspections, Wastewater Infrastructure Design, and Maintenance and Inspections. The City has Hazmat resources for emergencies and procedure to notify TCEQ. The City also has a written procedure for Hazardous Material and Oil Spill response plan and procedure. The IDDE response procedure was written to include Fire, EMS, Fire Marshal, Code Enforcement, and Emergency Management responding to incidents and complaints; either called into fire dispatch as emergencies, City website, "Connect2pearland" app, or phone calls. There were 12 illicit discharge and spills, 17 sanitary overflow, 8 SSO Nonconformance Notifications, 2 Effluent Nonconformance Notifications reported Environmental Services. There were 7 illegal dumping, 43 rubbish, 10 littering reported by Code Enforcement. There were 11 illegal dumping, 7 illegal burning, 2 unauthorized Discharge cases, 5 Chemical hazards without spill, 7 gasoline or other flammable liquid spills, 81 natural gas or LPG leaks, 2 refrigeration leaks and 10 Carbon Monoxide incidents were reported by fire department in 2022. The City received 97 stormwater related calls 12 illicit discharge related calls.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
2	On-Site Sewage Facilities (OSSF) Procedures	<p style="text-align: center;">Yes.</p> <p>City codes help to govern discharges from OSSFs into City-owned facilities/conveyances.</p> <p>The OSSF procedures prepared by the City is made available online for public use. As discussed in the OSSF procedure, the City contacted H-GAC and received GIS layer for OSSF. The City has added HGAC’s link to show the location of OSSF in the City. There were four (4) OSSF permits approved by TCEQ within the limit of City of Pearland in permit year 4.</p>
3,4	Plan Review	<p style="text-align: center;">Yes.</p> <p>Plan reviews help to ensure projects adhere the City’s specifications and regulations.</p> <p>The City currently has engineering plan and permit review guidelines, drainage plan review guidelines and detention pond review and inspection guidelines/SOP. Drainage plan review guidelines include review of detention pond for detention volume, outlet structures, side slopes, etc. City accepts digital copies of plans and are uploaded to the online system called “TRAKIT”. This online system is used to provide plan review comments and approval process. City has reviewed 538 commercial permits, 2963 residential permits, 12 infrastructure permits, 196 Right of Way (ROW) permits, and 266 sign permits. Engineering department has reviewed 9 grading permits in the year 2022. However, only 5 grading permits were issued in the year 4.</p>
2,3	Construction Site Inspection & Enforcement	<p style="text-align: center;">Yes.</p> <p>Site inspections ensure that proper SWPPP controls are in place.</p> <p>Various projects were inspected by the City’s stormwater inspector. City’s engineering inspectors have inspected residential and commercial properties under construction and 779 residential and commercial permits have been inspected which resulted in 3071 inspections.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
3	Construction Site Inventory	<p style="text-align: center;">Yes.</p> <p>An inventory of construction sites helps to track and manage construction activity in the City.</p> <p>A database has been created to keep records of Notices of Intent (NOIs), Notices of Change (NOCs) and Notices of Termination (NOTs). The database reflects a total of 14 NOIs, 1 NOTs & no NOCs filed in the year 4. The City of Pearland assigns Engineering Inspectors to inspect all applicable capital improvement projects, commercial, residential, and infrastructure projects. The City performed more than 3071 inspections during construction of various residential and commercial properties in year 4.</p>
4	Structural Control Maintenance, Inspection, and Enforcement	<p style="text-align: center;">Yes.</p> <p>Inspection, maintenance, and enforcement helps to ensure the proper function of structural controls.</p> <p>There are various entities involved in maintaining the stormwater control structures within the limits of the City of Pearland. The property owners and homeowners' associations are responsible for maintaining the detention pond and outfall structures. All the major bayous, ditches, and most of the regional detention ponds are inspected and maintained by Brazoria Drainage District 4 (BDD4) which is also a level II MS4 Operator. The City inspects all of the detention ponds under its jurisdiction which includes the inspection of outfall structure. The City inspected 160 detention ponds in 2022 and 141 out of 160 passed the inspection. 19 detention pond owners were notified for the violation and to take corrective action. District-owned ponds are maintained by the respective in-City Municipal Utility Districts (MUDs). The City of Pearland is responsible for the maintenance of street and yard inlets within the street right-of-way and public places. Regarding outfall Structures within the TXDOT right-of-way, TXDOT is a MS4 Operator and responsible for maintaining the drainage system within TxDOT right-of way.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
5	Maintenance Contractor Oversight	<p style="text-align: center;">Yes.</p> <p>Oversight helps to ensure adherence to SOPs.</p> <p>The City of Pearland requires contractors that are performing maintenance activities on behalf of the city to comply with applicable stormwater ordinances, control measures, good housekeeping practices and facility specific standard operating procedures for stormwater pollution prevention. No issues have been reported to the City for the maintenance work completed by the City hired contractor.</p>
5	Municipal Operations & Maintenance Activity	<p style="text-align: center;">Yes.</p> <p>Proper operation of facilities is crucial to the overall function of a City's facilities.</p> <p>The City of Pearland operates and maintains various wastewater treatment plants, sanitary sewer lift stations, water plants, and City fuel station within the City. These high priority facilities are mapped in the City's GIS and operate under separate permits through TCEQ. The City departments such as Parks & Recreation, and Public Works also stores various stormwater pollutants of concerns such as Pesticides, Fertilizers, Vehicles and equipment, construction materials etc. Various SOPs have been developed take care of municipal operations.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
5	Municipal Operations Inspection Program & Procedures	<p style="text-align: center;">Yes.</p> <p>Visual inspections help to discern the condition and effectiveness of pollution prevention measures.</p> <p>Various City owned high priority facilities such as wastewater treatment plants, sanitary sewer lift stations, water plants, and fuel stations are mapped in the City's GIS map and operate under separate permits through TCEQ. These facilities are inspected as required by the State. City maintained and inspected 4.5 miles of sanitary sewer line and 303 sanitary sewer manholes. In addition, the City departments such as Parks & Recreation, and Public Works also stores various stormwater pollutants of concerns such as Pesticides, Fertilizers, Vehicles and equipment, construction materials etc. Various SOPs have been developed take care of municipal operations. In addition, the City has developed Crack Seal Standard Operating Procedure for Catch Basins Standard Operating Procedures. The City has also developed Sanitary Sewer Maintenance policy. All the SOPs and policies mentioned above establishes inspection and maintenance activities.</p>
5	Disposal of Collected Waste	<p style="text-align: center;">Yes.</p> <p>Proper disposal of collected waste is crucial to environmental health. City of Pearland disposes of waste material in accordance with Title 30 of the Texas Administrative Code Chapters 330 or 335, as applicable. Waste Management company provides the collection and disposal of residential commercial, and recycling waste to nearest disposal site. City changed the waste collection vendor in October 2021 to Frontier Waste Solutions, a fully licensed, non-hazardous solid waste and recycling collection service company. They distributed garbage disposal bins to each resident and collect the garbage from bins instead of using separate bags along the street which will prevent or minimize pollution to storm systems due scavenging the garbage by animals.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
2,3,5	Staff Training	<p style="text-align: center;">Yes.</p> <p>Training is essential for more comprehensive approach to stormwater quality management.</p> <p>In 2022, stormwater pollution prevention trainings were given to employees at the Quarterly Stormwater Committee meetings via departments, MS4 videos and external companies. The topics of educational presentation by staff were</p> <ul style="list-style-type: none"> - Presentation by SOX Erosion Solutions & Double Oak Erosion - MS4 Requirements Documentation and Reporting Year 4 - John Hargrove Environmental Complex Natural Resources Projects - Stormwater Rain Check Training Video - Tour of the Recycling Center and presentation <p>Certified Stormwater Inspector (CSI) training is considered one of the key requirements for the Engineering inspectors. The City currently has eight (8) CSIs and one Stormwater Compliance Professional. The "Stormwater Inspector Training" trains/teaches, among other things, inspectors how to deal with the problems associated with illicit discharges. All of the City firefighters have at least Basic Firefighter certifications from the Texas Commission on Fire Protection, which includes 8 hours of Hazmat Awareness and 32 hours of Hazmat Operations. Many of the City's firefighters have Hazmat Technician certifications-80 hours, and Hazmat Incident Commander certifications-24 hours. Employees from various departments (Projects and Engineering, Public Works and Parks and Recreations) were also provided with trainings related to stormwater management.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
2,3,4	Stormwater Quality Ordinances	<p>Yes.</p> <p>Ordinances are vital tools for cities to use as an arm of enforcement toward regulatory matters.</p> <p>The City currently has ordinances such as stormwater ordinance, detention pond ordinance, and solid waste ordinance in place. These ordinances can be found on the City's website. All storm water related ordinances are up to date; the Solid Waste Ordinance was updated and adopted in November 2021.</p>

3. Describe progress towards achieving the goal of reducing the discharge of pollutants to the MEP. If no progress was made or the BMP did not result in a reduction in pollutants, provide an explanation. Use the table below to meet this requirement (**see Example 2 in instructions**):

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1,2	Distribute Education Material	Website	N/A	Uploading Educational Material	No. Though this BMP does not result in a direct reduction of pollutants, educating the citizens will eventually reduce litter, hence pollutants.
1,2,3	Stormwater Reporting by the Public	Website, phone line, mobile app	97 calls	Utilizing Reporting Mechanisms	Yes. When residents observe an illicit discharge and use the website's reporting mechanism or phone line, it reduces the amount the pollutant that would have been otherwise unaddressed.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1	Public Involvement Opportunities	Website	9	Events	No. Though this BMP does not result in a direct reduction of pollutants, involving the public is a great way to create a culture that understands the importance of clean waterways.
2,5	Storm Sewer System Map & Facility Inventory	Inventory of facilities	All	Maps/lists	Yes. Knowing the location of facilities and have the capability to track discharges helps to reduce pollutants discharging into our waterways.
2	Illicit Discharge and Spill Inspection, Investigation, and Response	IDDE Program	All	Reports	Yes. Responding to illicit discharges and spills helps to reduce the amount of pollutants that would have otherwise discharges into our waterways.
2	On-Site Sewage Facilities (OSSF) Procedures	Permits	4	Approval letters	Yes. Proper design and approval of these facilities is critical for meeting permit standards on a consistent basis.
3,4	Plan Review	Plans	All received by MS4 Operator	Reviews	Yes. Ensuring proper BMPs are on plan sets helps to reduce the pollutants that would otherwise discharge into the local streams without first going through a BMP.
2,3	Construction Site Inspection & Enforcement	Construction Sites	All	Inspections	Yes. Inspections allow for determining if proper BMPs are in place to reduce sediment discharge and erosion.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
3	Construction Site Inventory	Construction Sites	All	Inspections	No. Though this BMP does not result in a direct reduction of pollutants, an inventory of construction sites helps to track and manage construction activity in the City.
4	Structural Control Maintenance, Inspection, & Enforcement	Structural Controls	All	Inspections	Yes. Proper maintenance and inspections are imperative to ensure that controls are functioning properly.
5	Maintenance Contractor Oversight	SOPs	All	Training	No. Though this BMP does not result in a direct reduction of pollutants, maintenance contractor oversight helps to ensure adherence to SOPs.
5	Municipal Operations & Maintenance Activity	SOPs	All	Maintenance	Yes. Proper operation of facilities is crucial to the overall function of a City's facilities.
5	Municipal Operations Inspection Program & Procedures	Procedures	All	Inspections	Yes. Visual inspections help to discern the condition and effectiveness of pollution prevention measures and take action accordingly.
5	Disposal of Collected Waste	Title 30 of the Texas Administrative Code Chapters 330 or 335.	All	Waste Manifests	Yes. Proper disposal of collected waste is crucial to environmental health.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
2,3,5	Staff Training	SWMP	5	Meetings/ Educational presentations	No. Though this BMP does not result in a direct reduction of pollutants, educating and training the citizens and City staff will inform both groups how to improve stormwater quality.
2,3,4	Stormwater Quality Ordinances	Ordinance	21	Violations	Though this BMP does not result in a direct reduction of pollutants, ordinances are vital tool for cities to use as an arm of enforcement toward regulatory matters.

4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (**see Example 3 in instructions**):

MCM(s)	Measurable Goal(s)/BMP	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
1,2	Distribute Education Material	<p>The City developed and distributed educational material regarding stormwater pollution prevention and the hazards associated with illegal discharges and improper disposal of waste.</p> <p style="text-align: center;">Topics included:</p> <ul style="list-style-type: none"> A. "Easy Things You Can Do Every day to Protect Our Water" B. "A guide to the proper use of storm sewer system" C. "Fight the Fog (Fats, Oils, and Greases)" D. "Six Ways to Take Care of Texas" E. "Let's Tackle the Grease" F. "Clean Pipes are Green Pipes" G. "Defend your Drain." H. "Put the Waste in Its Place" I. "After the Storm" J. "Cease the Grease" K. "Swimming Pool Discharge Guide" L. "Protect Water Supply" coloring books M. "Unblocktober" Educational Videos N. "Edu-Katie" Educational Videos <p style="text-align: center;">Methods of distribution included:</p> <p>Community Events such as Spring Fest, Earth Day, Neighborhood Night Out, Trick or Treat Trail, & Fire Station #4 Open House Available at City Hall Annex.</p> <p>Available for Recycling Center Visitors.</p> <p>City Utility Billing Inserts.</p> <p>Available in the City's website (Stormwater Management Webpage).</p> <p>Social Media</p> <p style="text-align: center;">Target audiences included:</p> <ul style="list-style-type: none"> General Public/Residents – A, B, H, M, & N City Employees – All except L School Children – A, B, L, M, & N Commercial properties and restaurants employees - C Construction contractors – E & H Pool Owners and Pool Contractors- K

MCM(s)	Measurable Goal(s)/BMP	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
1,2,3	Stormwater Reporting by the Public	<p>Giving the public an avenue to report instances of pollution allows for a more comprehensive approach to managing the quality of stormwater.</p> <p>The City utilizes the Public Works emergency phone number to allow its citizens the opportunity to report stormwater pollution issues. This phone number can be found on the City's website and on its utility bills. In addition, the City has made the app "Connect2Pearland" available for residents to report code violation issues including stormwater concerns. This can also be completed on the city website (same as the app).</p>

1	Public Involvement Opportunities	<p style="text-align: center;">Yes.</p> <p>Allowing for public involvement allows for a more comprehensive approach to managing the quality of stormwater.</p> <p>Keep Pearland Beautiful (KPB) organization provides volunteer opportunities for special events and programs. These programs provide volunteer opportunities for both kids and adults. KPB had an Arbor Day Tree giveaway in which 300 trees were distributed on January 22, 2022. The Urban Forester had an Arbor Day poster contest in October and there were 750 participants. There was also an Arbor Day Tree giveaway on November 4th & 5th in which there were 350 participants. The Cigarette Litter Awareness day was held on February 19, 2022 which collected 11,460 cigarette butts and 3 vapes at 20 intersections within Pearland. There were 142 volunteer hours put in by 48 volunteers. The Summer (September 17, 2022) and Fall (November 5, 2022) Clean-up days on for the year 2022 were productive in cleaning 26 road miles with 397 volunteers and collecting 2,087 pounds of trash. Winter Litter Cleanup was February 5, 2022 in which there were 76 volunteers that collected 138 pounds of trash in 8 miles. The Pearland Waterways Cleanup event was held on March 12, 2022 and cleaned 1.3 miles of Mary's Creek with 18 volunteers that collected 177 pounds of trash and 23 pounds of recycling. Don't Mess with Texas Trash-Off was on April 2, 2022 where 18 miles were cleaned by 168 volunteers. The volunteers retrieved 156 pounds of trash, 2,024 cigarette butts, 6 vapes/cartridges, and 36 PPE masks. The Earth Day Event was held on April 23, 2022 in which 400 participants checked in. There were 18 Environmental Education Vendors and 113 volunteers. In December, there was an Urban Forestry Parade and there were 25 participants. A Cease the Grease Program distributed 350 FOG Brochures and KPB posted on Social Media.</p> <p>In addition, the Natural Resources Manager taught 2 Texas Master Naturalist training classes that had 30 adults in attendance for each class. The Natural Resources Staff provided 134 environmental education programs and events attended by 3,638 participants. There have also been 4.5 acres of wildflowers on the sloped bank of the JHEC pond and there were 300 native plants installed for the purpose of habitat restoration and enhancement which were grown inhouse from locally collected see by city staff and volunteers. Invasive plant control was implemented for approximately 12acres. Habitat management techniques were applied to approximately 25 acres of the city parks for the benefit of promoting natural land.</p>
---	----------------------------------	--

MCM(s)	Measurable Goal(s)/BMP	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
2,5	Storm Sewer System Map & Facility Inventory	<p>A storm sewer map and inventory of facilities aides in the management of the storm sewer system and City-owned facilities.</p> <p>The storm sewer system map has been updated to reflect the most recent condition of storm sewer system in the City. This document is a living document and being updated as new facilities are added. In addition, City’s GIS website shows the utilities, such as storm sewer system, detention ponds, sanitary sewer systems, waterlines, lift stations, and treatment plants etc. Outfalls and receiving streams are identifiable on the map as well.</p>
2	Illicit Discharge and Spill Inspection, Investigation, and Response	<p>Inspecting, investigating and responding to illicit discharges and spills helps to minimize illicit discharges and spills from entering the storm sewer system.</p> <p>The following programs are currently in place to prevent undesirable discharge from leaving the drainage system: Fire Marshal / Emergency Management, Code Enforcement Department Investigation, Grease Interceptor Maintenance and Inspections, Wastewater Infrastructure Design, and Maintenance and Inspections. The City has Hazmat resources for emergencies and procedure to notify TCEQ. The City also has a written procedure for Hazardous Material and Oil Spill response plan and procedure. The IDDE response procedure was written to include Fire, EMS, Fire Marshal, Code Enforcement, and Emergency Management responding to incidents and complaints; either called into fire dispatch as emergencies, City website, “Connect2pearland” app, or phone calls. There were 12 illicit discharge and spills, 17 sanitary overflow, 8 SSO Nonconformance Notifications, 2 Effluent Nonconformance Notifications reported Environmental Services. There were 7 illegal dumping, 43 rubbish, 10 littering reported by Code Enforcement. There were 11 illegal dumping, 7 illegal burning, 2 unauthorized Discharge cases, 5 Chemical hazards without spill, 7 gasoline or other flammable liquid spills, 81 natural gas or LPG leaks, 2 refrigeration leaks and 10 Carbon Monoxide incidents were reported by fire department in 2022. The City received 97 stormwater related calls 12 illicit discharge related calls.</p>

MCM(s)	Measurable Goal(s)/BMP	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
2	On-Site Sewage Facilities (OSSF) Procedures	<p>City codes help to govern discharges from OSSFs into City-owned facilities /conveyances.</p> <p>The OSSF procedures prepared by the City is made available online for public use. As discussed in the OSSF procedure, the City contacted H-GAC and received GIS layer for OSSF. The City has added HGAC's link to show the location of OSSF in the City. There were four (4) OSSF permits approved by TCEQ within the limit of City of Pearland in permit year 4.</p>
3,4	Plan Review	<p>Plan reviews help to ensure projects adhere the City's specifications and regulations.</p> <p>The City currently has engineering plan and permit review guidelines, drainage plan review guidelines and detention pond review and inspection guidelines/SOP. Drainage plan review guidelines include review of detention pond for detention volume, outlet structures, side slopes, etc. The City has reviewed 538 commercial permits, 2963 residential permits, 12 infrastructure permits, 196 Right of Way (ROW) permits, and 266 sign permits. Engineering department has reviewed 9 grading permits in the year 2022. However, only 5 grading permits were issued in the year 4.</p>
2,3	Construction Site Inspection & Enforcement	<p>Site inspections ensure that proper SWPPP controls are in place.</p> <p>Various projects were inspected by the City's stormwater inspector. The City's engineering inspectors have inspected residential and commercial properties under construction and 779 residential and commercial permits have been inspected which resulted in 3071 inspections.</p>
3	Construction Site Inventory	<p>An inventory of construction sites helps to track and manage construction activity in the City.</p> <p>A database has been created to keep records of Notices of Intent (NOIs), Notices of Change (NOCs) and Notices of Termination (NOTs). The database reflects a total of 14 NOIs, 1 NOTs & no NOCs filed in the year 4. The City of Pearland assigns Engineering Inspectors to inspect all applicable capital improvement projects, commercial, residential, and infrastructure projects. The City performed more than 3071 inspections during construction of various residential and commercial properties in year 4.</p>

MCM(s)	Measurable Goal(s)/BMP	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
4	Structural Control Maintenance, Inspection, and Enforcement	<p>Inspection, maintenance, and enforcement helps to ensure the proper function of structural controls.</p> <p>There are various entities involved in maintaining the stormwater control structures within the limits of the City of Pearland. The property owners and homeowners' associations are responsible for maintaining the detention pond and outfall structures. All the major bayous, ditches, and most of the regional detention ponds are inspected and maintained by Brazoria Drainage District 4 (BDD4) which is also a level II MS4 Operator. The City inspects all of the detention ponds under its jurisdiction which includes the inspection of outfall structure. The City inspected 160 detention ponds in 2022 and 141 out of 160 passed the inspection. 19 detention pond owners were notified for the violation and to take corrective action. District-owned ponds are maintained by the respective in-City Municipal Utility Districts (MUDs). The City of Pearland is responsible for the maintenance of street and yard inlets within the street right-of-way and public places. Regarding outfall Structures within the TXDOT right-of-way, TXDOT is a MS4 Operator and responsible for maintaining the drainage system within TxDOT right-of way.</p>
5	Maintenance Contractor Oversight	<p>Oversight helps to ensure adherence to SOPs.</p> <p>The City of Pearland requires contractors that are performing maintenance activities on behalf of the city to comply with applicable stormwater ordinances, control measures, good housekeeping practices and facility specific standard operating procedures for stormwater pollution prevention. No issues have been reported to the City for the maintenance work completed by the City hired contractor.</p>
5	Municipal Operations & Maintenance Activity	<p>Proper operation of facilities is crucial to the overall function of a City's facilities.</p> <p>The City of Pearland operates and maintains various wastewater treatment plants, sanitary sewer lift stations, water plants, and City fuel station within the City. These high priority facilities are mapped in the City's GIS and operate under separate permits through TCEQ. The City departments such as Parks & Recreation, and Public Works also stores various stormwater pollutants of concerns such as Pesticides, Fertilizers, Vehicles and equipment, construction materials etc. Various SOPs have been developed take care of municipal operations.</p>

MCM(s)	Measurable Goal(s)/BMP	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
5	Municipal Operations Inspection Program & Procedures	<p>Visual inspections help to discern the condition and effectiveness of pollution prevention measures.</p> <p>Various City owned high priority facilities such as wastewater treatment plants, sanitary sewer lift stations, water plants, and fuel stations are mapped in the City's GIS map and operate under separate permits through TCEQ. These facilities are inspected as required by the State. The City maintained and inspected 4.5 miles of sanitary sewer line and 303 sanitary sewer manholes. In addition, the City departments such as Parks & Recreation, and Public Works also stores various stormwater pollutants of concerns such as Pesticides, Fertilizers, Vehicles and equipment, construction materials etc. Various SOPs have been developed take care of municipal operations. In addition, the City has developed Crack Seal Standard Operating Procedure for Catch Basins Standard Operating Procedures. The City has also developed Sanitary Sewer Maintenance policy. All the SOPs and policies mentioned above establishes inspection and maintenance activities.</p>
5	Disposal of Collected Waste	<p>Proper disposal of collected waste is crucial to environmental health.</p> <p>City of Pearland disposes of waste material in accordance with Title 30 of the Texas Administrative Code Chapters 330 or 335, as applicable. Waste Management company provides the collection and disposal of residential commercial, and recycling waste to nearest disposal site. The City changed the waste collection vendor in October 2021 to Frontier Waste Solutions, a fully licensed, non-hazardous solid waste and recycling collection service company. The new vendor distributed garbage disposal bins to each resident and collect the garbage from bins instead of using separate bags along the street which will prevent or minimize pollution to storm systems due scavenging the garbage by animals.</p>

MCM(s)	Measurable Goal(s)/BMP	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
2,3,5	Staff Training	<p>Training is essential for a more comprehensive approach to stormwater quality management.</p> <p>In 2022, stormwater pollution prevention trainings were given to employees at the Quarterly Stormwater Committee meetings and via departments, MS4 videos and external companies. The topics of educational presentation by staff were as follows:</p> <ul style="list-style-type: none"> - Presentation by SOX Erosion Solutions & Double Oak Erosion - MS4 Requirements Documentation and Reporting Year 4 - John Hargrove Environmental Complex Natural Resources Projects - Stormwater Rain Check Training Video - Tour of the Recycling Center and presentation <p>Certified Stormwater Inspector (CSI) training is considered one of the key requirements for the Engineering inspectors. The City currently has eight (8) CSIs and one Stormwater Compliance Professional. The "Stormwater Inspector Training" trains/teaches, among other things, inspectors how to deal with the problems associated with illicit discharges. All of the City firefighters have at least Basic Firefighter certifications from the Texas Commission on Fire Protection, which includes 8 hours of Hazmat Awareness and 32 hours of Hazmat Operations. Many of the City's firefighters have Hazmat Technician certifications-80 hours, and Hazmat Incident Commander certifications-24 hours. Employees from various departments (Projects and Engineering, Public Works and Parks and Recreations) were also provided with trainings related to stormwater management.</p>
2,3,4	Stormwater Quality Ordinances	<p>Ordinances are vital tools for cities to use as an arm of enforcement toward regulatory matters.</p> <p>The City currently has ordinances such as stormwater ordinance, detention pond ordinance, and solid waste ordinance in place. These ordinances can be found on the City's website. All storm water related ordinances are up to date; the Solid Waste Ordinance was updated and adopted in November 2021.</p>

C. Stormwater Data Summary

Provide a summary of all information used, including any lab results (if sampling was conducted) to assess the success of the SWMP at reducing the discharge of pollutants to the MEP. For example, did the MS4 conduct visual inspections, clean the inlets, look for illicit discharge, clean streets, look for flow during dry weather, etc.?

The City has provided various ways to report illicit discharge by public. Fire department, code enforcement department and public work department work on getting these discharges cleaned up and make necessary corrective actions to prevent illicit discharges to storm system. Fats, Oils and Grease Program has completed 2789 total inspections.

In accordance with the City's SOP's, the sweeping of the City's streets is separated into two frequencies of service. Major roadways and collector streets were maintained by a company contracted by the City of Pearland.

Under the City's MS4 program, detention ponds are visually inspected annually by the engineering department and issue violation letters to comply with the ordinance if any issue is found with 30-day period to comply with the ordinance. Re-inspections are conducted for the failed ponds and forward the case to code enforcement if corrective actions are not taken. Accordingly, 141 inspections were conducted and 160 passed the visual inspection.

The storm sewer system map has been updated to reflect the most recent condition of storm sewer system in the City. In addition, City's GIS website shows all of the utilities, such as sanitary sewer systems, lift stations, treatment plants etc. Outfalls and receiving streams are identifiable on the map as well.

The City is equipped with Hazmat resources for emergencies and procedures to notify the TCEQ. The City also has written procedures for Hazardous Material as well as an Oil Spill response plan and procedures. The IDDE response procedure was revisited to include Fire, EMS, Fire Marshal, Code Enforcement, and Emergency Management responding to incidents and complaints. During year 4, there were 5 Chemical hazards without spill, 7 gasoline or other flammable liquid spills, 81 natural or LPG leaks, 2 refrigeration leaks and 10 Carbon Monoxide incidents were reported.

The City has a program that consists of sanitary sewer inspections with a camera truck. The City inspects, rehabilitate sanitary sewer. City maintained and inspected 4.5 miles of sanitary sewer line and 303 sanitary sewer manholes. The City has also developed a Sanitary Sewer Maintenance Policy which provides the details of routine Maintenance and inspection of sewer and lift stations including emergency response. The lift stations are monitored daily by staff.

The City also inspects the conveyance system after each extreme event rainfall and addresses any stormwater issues. Additionally, the City investigates the stormwater issues brought to attention by citizen complaints.

D. Impaired Waterbodies

1. Identify whether an impaired water within the permitted area was added to the latest EPA-approved 303(d) list or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d). List any newly-identified impaired waters below by including the name of the water body and the cause of impairment.

The waterbodies receiving discharge within the permitted area were on the previous Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d) and remain on the new one.

2. If applicable, explain below any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern.

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 referenced to write the SWMP summarizes information found in the TMDL documents for potential pollution sources. The City has reviewed the potential sources of bacteria as identified in the I-Plan, as well as the strategies proposed to address these potential sources. The 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 City of Pearland. Goals listed in the SWMP, including those relative to TMDLs, and reported in previous sections of this annual report have been achieved. Furthermore, the following sections will give more detail of the additional BMPs used to address the pollutant of concern.

3. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL.

The SWMP goals are consistent with the rules written in the TXR040000, as well as the goals written in the respective TMDL documents. Each BMP mentioned in the SWMP shares an overarching goal of controlling the discharge(s) of the pollutant of concern (bacteria) to impaired waters and waters with an approved TMDL, and is focused on addressing and eliminating the bacteria impairment.

4. Report the benchmark identified by the MS4 and assessment activities:

Benchmark Parameter (Ex: Total Suspended Solids)	Benchmark Value	Description of additional sampling or other assessment activities	Year(s) conducted
Bacteria	1.46 Billion MPN/Day 1102_02	<i>Clear Creek above Tidal</i> - No sampling was performed in year 4.	N/A
Bacteria	1.91 Billion MPN/Day 1102_03	<i>Clear Creek above Tidal</i> - No sampling was performed in year 4.	N/A
Bacteria	23.9 Billion MPN/Day 1102A_01	<i>Cowart Creek</i> - No sampling was performed in year 4.	N/A
Bacteria	126 Billion MPN/Day 1102B_01	<i>Mary's Creek/North Fork Mary's Creek</i> - No sampling was performed in year 4.	N/A
Bacteria	18.2 Billion MPN/Day 1102C_01	<i>Hickory Slough</i> - No sampling was performed in year 4.	N/A
Bacteria	9.27 Billion MPN/Day 1102G_01	<i>Unnamed Tributary of Mary's Creek</i> - No sampling was performed in year 4.	N/A

5. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark:

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
Bacteria	Distribute Education Material	The targeted BMP of educational material relative to bacteria helps to educate the public on ways to reduce the bacteria impairments in receiving streams.
Bacteria	Stormwater Reporting by the Public	This targeted BMP helps to facilitate public reporting by providing a hotline, website and by responding to stormwater quality reports specific to bacteria reduction within 1 business day.
Bacteria	Illicit Discharge and Spill Inspection, Investigation, and Response	Targeted BMP for Bacteria: Conduct inspections and maintenance of sanitary sewer system and record at least 95% of inspection and maintenance work orders.
Bacteria	On-Site Sewage Facilities (OSSF) Procedures	Targeted BMP for Bacteria: Refer reports of failing on-site septic facilities to jurisdictional authority within 24 hours of receipt of report. Request OSSF inspection reports from jurisdictional authority. All new OSSF need to provide TCEQ approval letter prior to design approval.

6. If applicable, report on focused BMPs to address impairment for bacteria:

Description of bacteria-focused BMP	Comments/Discussion
Distribute Education Material	Follows I Plan recommendations
Stormwater Reporting by the Public	Follows I Plan recommendations
Illicit Discharge and Spill Inspection, Investigation, and Response	Follows I Plan recommendations
On-Site Sewage Facilities (OSSF) Procedures	Follows I Plan recommendations

7. Assess the progress to determine BMP’s effectiveness in achieving the benchmark.

Benchmark Indicator	Description/Comments
Educational Material	Educating the public on ways to reduce the bacteria impairments in receiving streams is a way to involve the public in the City’s approach to stormwater management.
Stormwater Reporting by the Public	Providing an avenue of reporting multiplies the number of people working towards the goal of reducing the bacteria impairments in receiving streams. A prompt response by the City of Pearland not only encourages public participation but facilitates quicker clean-up times.
Illicit Discharge and Spill Inspection, Investigation, and Response	Timely response to illicit discharges and spills is imperative in reducing pollution into our waterways. Inspections and investigations aides in discovering the source(s) of the discharge/spill.
On-Site Sewage Facilities (OSSF) Procedures	The City refer reports of failing on-site septic facilities to jurisdictional authority and request OSSF facility locations and inspection reports from jurisdictional authority to help track faulty systems. All new OSSF need to provide TCEQ approval letter prior to design approval.

E. Stormwater Activities

Describe activities planned for the next reporting year:

MCM(s)	BMP	Stormwater Activity	Description/Comments
1,2	Distribute Education Material	Distribute educational material about stormwater pollution prevention and the hazards associated with illegal discharges and improper disposal of waste	Distribute educational material for at least 5 stormwater pollution prevention topics. Utilize at least 3 methods of distribution. Reach at least 3 target audiences. Provide two topics of educational material specific to bacteria reduction.
1,2,3	Stormwater Reporting by the Public	Facilitate public reporting of stormwater quality concerns and illicit discharges.	Maintain at least 1 mechanism for the public to submit stormwater quality reports. Ensure the stormwater reporting mechanism is publicly accessible at least 95% of the time. Respond to stormwater quality reports within 2 business days. If the public report concerns an immediate threat to human health or the environment, respond within 24 hours of notification. Respond to stormwater quality reports specific to bacteria reduction within 1 business day.
1	Public Involvement Opportunities	Facilitate public involvement and education for stormwater pollution prevention activities. Consider and facilitate public input in the implementation of the program.	Provide at least 2 public involvement opportunities for stormwater pollution prevention. Engage at least 2 target audiences. Provide one opportunity for public to provide feedback on the SWMP during the public comment period.

MCM(s)	BMP	Stormwater Activity	Description/Comments
2,5	Storm Sewer System Map & Facility Inventory	<p>Map 100% of the City's new stormwater outfalls discharging to Waters of the U.S. within 12 months of identification or notification of installation.</p> <p>Review MS4 map and update inventory of facilities and structural controls.</p>	Continue to update the facility maps and outfalls to Waters of the US.
2	Illicit Discharge and Spill Inspection, Investigation, and Response	Continue a program to inspect, investigate, and respond to notifications of spills and illicit discharges and eliminate identified sources of illicit discharge.	Respond to 100% of notifications of spills and illicit discharge with inspections within 2 business days of receiving a notification. If the notification concerns an immediate threat to human health or the environment, respond within 24 hours of notification. Notify TCEQ of 100% of spills and illicit discharges that are believed to be an immediate threat to human health or the environment within 24 hours of identification. Review process for inspection and maintenance of sanitary sewer systems and lift stations. Conduct inspections and maintenance of linear feet of sanitary sewer systems and lift stations.
2	On-Site Sewage Facilities (OSSF) Procedures	Create one inventory of 100% of known On-site Sewage Facilities (OSSF) within the MS4 area.	Evaluate the current program to prevent and correct failing on-site septic facilities. Refer reports of failing on-site septic facilities to jurisdictional authority within 24 hours or receipt of report. Final approval of design permits with OSSFs contingent upon TCEQ approval letter. Maintain a copy of approval letter with the permit. Request and maintain one copy of inventory of known OSSF inventory.

MCM(s)	BMP	Stormwater Activity	Description/Comments
3,4	Plan Review	Conduct engineering and construction plan reviews of site development and redevelopment projects to the standards set forth in City ordinances and design criteria to evaluate potential water quality impacts during construction and post-construction.	Review 100% of plans submitted to the City prior to final acceptance of plans. Maintain one copy of final plan review documentation for 100% of approved construction plans.
2,3	Construction Site Inspection & Enforcement	Conduct inspections of priority construction sites within the MS4 according to City procedures and ordinances. Enforce correction for violations of City ordinance provisions governing construction site operations and TPDES Construction General Permit TXR150000.	Conduct at least one site inspection of 100% of identified active priority construction sites, including evaluation of coverage under the Construction General Permit (TXR0150000). Maintain one copy of each completed construction site inspection report. Conduct follow-up action (i.e. inspection or enforcement) for 100% of sites with observed violations.
3	Construction Site Inventory	Maintain one inventory of all known permitted active public and private construction sites that result in a total land disturbance of one or more acres or a total land disturbance of less than an acre if part of a larger common plan or development.	Add active construction sites to inventory within 7 business days of pre-construction meeting or NOI. Remove finalized construction sites from inventory within 30 business days of receipt of NOT. Maintain one copy of each NOI for construction activity submitted by the contractor to the City.
4	Structural Control Maintenance, Inspection, and Enforcement	Continue inspections of City-owned priority water quality structural controls according to written procedures. Inspect 100% of City-owned priority water quality structural controls by the end of the permit term.	Evaluate the City's current program for structural control inspection and maintenance and enforcement of maintenance requirements for privately-owned post-construction BMPs. Continue and/or implement requirements for deed-recorded maintenance plans for privately-owned structural controls.

MCM(s)	BMP	Stormwater Activity	Description/Comments
5	Maintenance Contractor Oversight	<p>Utilize standard contract language requiring compliance with City stormwater pollution prevention measures, good housekeeping practices, and facility specific stormwater management operating procedures on 100% of new or renewed service agreements with contractors hired to perform City maintenance activities with the potential to impact stormwater quality. Investigate stormwater quality reports concerning contracted maintenance activities within 2 business days of receipt of report.</p>	<p>Maintain one copy of inspection documentation notes and follow-up actions, as necessary.</p>
5	Municipal Operations & Maintenance Activity	<p>Continue to perform existing operations and maintenance activities according to established procedures to reduce the discharge of pollutants from the activities.</p> <p>Implement a set of pollution prevention measures for any newly identified operations and maintenance activities with potential to impact stormwater quality performed by the City within 12 months of identification of the activity.</p>	<p>Evaluate each operation and maintenance activity performed by the City and identify pollutants of concern associated with these activities.</p>
5	Municipal Operations Inspection Program & Procedures	<p>Begin visual inspection of pollution prevention measures at City-owned facilities according to written procedures.</p> <p>Inspect 100% of pollution prevention measures.</p> <p>Maintain one completed inspection checklist for each facility.</p>	<p>Evaluate the City's current procedures for visual inspections of pollution prevention measures at City-owned facilities. Implement visual inspection procedure.</p>

MCM(s)	BMP	Stormwater Activity	Description/Comments
5	Disposal of Collected Waste	Dispose of waste material according to written procedures and in accordance with Title 30 of the Texas Administrative Code Chapters 330 or 335, as applicable	Maintain one copy of associated waste disposal documentation (e.g. waste manifests, contractor invoices, etc.) and estimate the amount of waste material disposed of during the year.
2,3,5	Staff Training	Conduct training for staff with responsibilities relating to activities with potential impacts to stormwater quality.	Provide general awareness-level training for pollution prevention and good housekeeping to staff at least once annually. Provide job-specific stormwater quality and pollution prevention training to 100% of staff responsible for performing those activities in advance of conducting unsupervised responsibilities. Provide job-specific stormwater quality and pollution prevention training to 100% of staff responsible for performing those activities within 12 months of date of hire or transfer to new role. Maintain one copy of training documentation.
2,3,4	Stormwater Quality Ordinances	Document any changes to existing City ordinances to comply with illicit discharge prohibition, construction site stormwater runoff control, and post-construction permit requirements in one memo to file.	Evaluate the City's current ordinances for compliance with illicit discharge prohibition, construction site stormwater runoff control, and post-construction permit requirements.

F. SWMP Modifications

1. The SWMP and MCM implementation procedures are reviewed each year.

Yes No

2. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review.

Yes No

If "Yes," report on changes made to measurable goals and BMPs:

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
N/A	N/A	N/A

Note: If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible, and why the replacement BMP is expected to achieve the goals of the original BMP.

3. Explain additional changes or proposed changes not previously mentioned (i.e. dates, contacts, procedures, annexation of land, etc.).

N/A

Additional BMPs for TMDLs and I-Plans

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans.

BMP	Description	Implementation Schedule (start date, etc.)	Status/Completion Date (completed, in progress, not started)
All	N/A	N/A	Additional BMPs not deemed necessary.

G. Additional Information

1. Is the permittee relying on another entity to satisfy any permit obligations?

Yes No

If "Yes," provide the name(s) of other entities and an explanation of their responsibilities (add more spaces or pages if needed).

All Districts listed below in 2.b are responsible for managing their respective District-owned conveyances within the City of Pearland.

2.a. Is the permittee part of a group sharing a SWMP with other entities?

Yes No

2.b. If "yes," is this a system-wide annual report including information for all permittees?

Yes No

Authorization Number: <u>TXR040511</u>	Permittee: <u>BFBC MUD 1</u>
Authorization Number: <u>TXR040449</u>	Permittee: <u>BC MUD 17</u>
Authorization Number: <u>TXR040594</u>	Permittee: <u>BC MUD 19</u>
Authorization Number: <u>TXR040506</u>	Permittee: <u>BC MUD 23</u>
Authorization Number: <u>TXR040507</u>	Permittee: <u>BC MUD 26</u>
Authorization Number: <u>TXR040508</u>	Permittee: <u>BC MUD 28</u>
Authorization Number: <u>TXR040509</u>	Permittee: <u>BC MUD 34</u>
Authorization Number: <u>TXR040510</u>	Permittee: <u>BC MUD 35</u>
Authorization Number: <u>TXR040512</u>	Permittee: <u>HBC MUD 509</u>
Authorization Number: <u>TXR040622</u>	Permittee: <u>LKPMD</u>
Authorization Number: <u>TXR040623</u>	Permittee: <u>Pearland MMD 1</u>

The aforementioned Districts are responsible for managing their respective District-owned stormwater conveyances. Accordingly, these in-City Districts' rely on the City of Pearland for all other implementation efforts.

To meet these requirements, proper mowing and maintenance schedules are kept. Fertilization/over-seed are applied as needed. The goal of this objective is to keep the conveyances (side slopes, etc.) in good working order; no erosion, rills, or anything else that would hinder the purpose of the respective stormwater conveyance.

H. Construction Activities

1. The number of construction activities that occurred in the jurisdictional area of the MS4 (Large and Small Site Notices submitted by construction site operators):

 14

- 2a. Does the permittee utilize the optional seventh MCM related to construction?

Yes No

- 2b. If "yes," then provide the following information for this permit year:

The number of municipal construction activities authorized under this general permit	
The total number of acres disturbed for municipal construction projects	N/A

Note: Though the seventh MCM is optional, implementation must be requested on the NOI or on a NOC and approved by the TCEQ.

I. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Rajendra Shrestha Title: City Engineer


Signature:  Date: 3/20/2023

Name of MS4: City of Pearland - TXR040208

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Michael Parks Title: President
Signature:  Date: 3/3/23

Name of MS4: Brazoria-Fort Bend County MUD 1 - TXR040511

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): James W. Chick Title: President

Signature: James W. Chick Date: Feb 7, 2023


Name of MS4: Brazoria County MUD 17 - TXR040449

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Troy Nixon Title: President

Signature:  Date: February 28, 2023


Name of MS4: Brazoria County MUD 19 - TXR040594

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Russell Secrest Title: Secretary

Signature:  Date: 2/8/2023

Name of MS4: Brazoria County MUD 23 - TXR040506

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Catalynn Prode Title: President

Signature: Catalynn Prode Date: Feb 7, 2023

Name of MS4: Brazoria County MUD 26 - TXR040507

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): NIGEL BROOKS Title: VICE PRESIDENT

Signature:  Date: March 16, 2023

Name of MS4: Brazoria County MUD 28 - TXR040508

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Roland Falgout Title: President

Signature: Roland Falgout Date: Feb 23, 2023


Name of MS4: Brazoria County MUD 34 - TXR040509

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Lorna Kool Title: President

Signature:  Date: Feb 14, 2023


Name of MS4: Brazoria County MUD 35 - TXR040510

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Ricardo Rodriguez Title: President

Signature:  Date: February 16, 2023


Name of MS4: Harris-Brazoria County MUD 509 - TXR040512

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Richard Jepson Title: Asst. Vice President

Signature:  Date: February 21, 2023

Name of MS4: Lower Kirby Pearland Management District - TXR040622

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): MIKE ROZELL Title: President

Signature: Mike V. Rozell Date: 3-1-23

Name of MS4: Pearland Municipal Management District 1 - TXR040623