



Environmental Conservation Commission

May 7, 2024
Town Hall
2121 Cross Timbers Road
Flower Mound, TX 75028

6:30 p.m.

AGENDA

A. CALL TO ORDER

B. INVOCATION

C. PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG

D. PUBLIC COMMENT

The purpose of this item is to allow the public an opportunity to address the Board/Commission regarding any item on this agenda that is not a "Public Hearing." Issues regarding daily operational or administrative matters should first be dealt with by calling Town Hall at 972- 874-6000 during business hours. To speak to the Board/Commission during public comment, please fill out a comment form, which is located in the lobby of Town Hall.

In accordance with the Texas Open Meetings Act, the Board/Commission is restricted from discussing or acting on items not listed on the agenda.

- Speakers are limited to 3 minutes; a tone will sound at 30 seconds left and when time has expired, and times may be adjusted by the Chair depending on the number of speakers.
- Speakers must address their comments to the Board/Commission.
- Please state your name and address when speaking.

E. STAFF/DIRECTOR REPORT

F. CONSENT ITEM(S)

This part of the agenda consists of non-controversial, or "housekeeping" items required by law. Items may be removed from Consent by any Commissioner by making such request prior to a motion and vote.

1. Minutes Approval - Consider approval of the minutes from the regular meeting of the Environmental Conservation Commission on April 2, 2024.

G. REGULAR ITEM(S)

H. ADJOURNMENT–REGULAR SESSION

I. CALL WORK SESSION TO ORDER

J. WORK SESSION ITEM

1. Stormwater Management Program Update
2. Conduct a review of the Environmental Conservation Commission 2024-2025 initiatives and objectives.

K. SUBCOMMITTEE REPORT

L. COORDINATION OF FUTURE AGENDAS/MEETINGS

M. ADJOURNMENT–WORK SESSION

I do hereby certify that the Notice of Meeting was posted on the bulletin board at the Town Hall for the Town of Flower Mound, Texas, in a place convenient and readily accessible to the general public at all times and said Notice was also posted on the Town's website in accordance with GC Section 551.056 on the following date and time: May 3, 2024, at 2:00 pm., at least 72 hours prior to the scheduled time of said meeting.

Hannah Perez, Administrative Assistant

The Flower Mound Town Hall and Jody Smith Hall are wheelchair accessible. Requests for accommodation or interpretive services must be made 48 hours prior to this meeting by contacting Town Hall at 972.874.6000. Additional time limits will be provided for members of the public that need to address the Town Council through a translator.

Environmental Conservation Commission



April 2, 2024
Town Hall
2121 Cross Timbers Road
Flower Mound, TX 75028

6:30 p.m.

DRAFT MINUTES

A. CALL TO ORDER

The Environmental Conservation Commission met in a regular meeting with the following members present:

Marilyn Lawson, Chair, Place 4
Anurag Sharma, Place 1
James Seastrom, Place 2
Laura Spurlock, Place 3
Alton Bowman, Place 5
Clare Harris, Place 7
Juli Greenberg, Place 9 Alternate
Danielle Workman, Place 10 Alternate

with the following member(s) absent:
Emily Strittmatter, Place 8
Anna Athappan, Place 6

constituting a quorum with the following members of the Town Staff participating:

Matthew Woods, Director of Environmental Services
Joe Whiteley, Environmental Review Analyst
Tyler Leverenz, Environmental, Programs Coordinator
Hannah Perez, Administrative Assistant
Kayla Lipinski, Tree Preservation Tech

B. INVOCATION

Vice-chair James Seastrom gave the invocation and led the pledges.

C. PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG

D. PUBLIC COMMENT

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- Speakers must address their comments to the Board/Commission.
- Please state your name and address when speaking.

E. STAFF/DIRECTOR REPORT

Update and status report related to environmental issues and events regulatory activities, and projects.

F. CONSENT ITEM(S)

This part of the agenda consists of non-controversial, or "housekeeping" items required by law. Items may be removed from Consent by any Commissioner by making such request prior to a motion and vote.

1. Minutes Approval - Consider approval of the minutes from the regular meeting of the Environmental Conservation Commission on March 6, 2024.

ACTION:	Commission Member Harris moved to approve F.1. as presented in the agenda caption. Commission Member Seastrom seconded the motion.
AYES:	Alton Bowman, James Seastrom, Juli Greenberg, Anurag Sharma, Laura Spurlock, Clare Harris
NAYS:	None
ABSTAIN:	None
RESULT:	6 : 0

G. REGULAR ITEM(S)

1. Smith Tract Conservation Development - Consider a recommendation to the Planning and Zoning Commission and Town Council of an Open Space Management Plan for the proposed Smith Conservation Development. The property is generally located south of Cross Timbers Road, east of Shiloh Road, and west of Scenic Drive.

Staff Presenter

Joseph Whiteley, Environmental Review Analyst, gave a presentation with the following items included and answered questions:

- Conservation Development Option
- Eco-fringe Buffer
- Project Information
- Site Location
- Environmental Protection Plan (EPP)
- Open Space Management Plan
- Motion/Recommendation

- Mike Boswell, Toll Brothers Vice President of Land Development, 2265 Virginia Parkway, gave a presentation and answered questions on the Smith Conservation Development plan.

ACTION: Commission Member Seastrom moved to approve G.1. as presented in the agenda caption. Commission Member Spurlock seconded the motion.

AYES: Alton Bowman, James Seastrom, Anurag Sharma, Laura Spurlock, Clare Harris

NAYS: Juli Greenberg

ABSTAIN: None

RESULT: 5 : 1

2. TRP23-0022 - Smith Conservation - Consider an application for a tree removal permit (TRP23-0022) for one hundred and twenty-seven (127) specimen trees on property proposed for development as Smith Conservation. The property is generally located south of Cross Timbers Road, east of Shiloh Road, and west of Scenic Drive.

Staff Presenter

Matt Woods, Director of Environmental Services, gave a presentation with the following items included and answered questions:

- Project Information
- Tree Credit Schedule
- General Location

- Tree Survey with updated removal request of one hundred and twenty-nine (129) specimen trees.
 - Motion/Recommendation
-
- Mike Boswell, Toll Brothers Vice President of Land Development, 2265 Virginia Parkway, gave a presentation and answered questions on the proposed specimen tree removal request.

ACTION:	Commission Member Seastrom moved to approve G.2. the requested tree removal permit for the removal of one hundred and twenty-nine (129) specimen trees. Commission Member Sharma seconded the motion.
AYES:	James Seastrom, Marilyn Lawson, Anurag Sharma, Laura Spurlock
NAYS:	Alton Bowman, Juli Greenberg, Clare Harris
ABSTAIN:	None
RESULT:	4 : 3

H. SUBCOMMITTEE REPORT

Receive updates and status reports related to subcommittee activates and establish subcommittees as necessary.

I. COORDINATION OF FUTURE AGENDAS/MEETINGS

ECC members and staff discussed possible future agenda items.

J. ADJOURN

Chair Lawson adjourned the meeting at 8:16 p.m. on April 2 and all were in favor.



ENVIRONMENTAL CONSERVATION COMMISSION AGENDA J.1. WORK SESSION ITEM

DATE: May 7, 2024
FROM: Joseph Whiteley, Environmental Review Analyst
ITEM: **Stormwater Management Program Update**

BACKGROUND: This work session item provides the Environmental Conservation Commission (ECC) an overview of the Town's Stormwater Management Plan (SWMP) and its associated reporting. Staff will provide a review of the annual report submitted to the Texas Commission on Environmental Quality for the 2023 calendar year.

The attachments include the current SWMP and Annual Report.

BOARD REVIEW/CITIZEN FEEDBACK: N/A

ALTERNATIVES: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. MS4 Annual Report 2023
2. Flower Mound SWMP (Draft Pending Final Approval)

DRAFT MOTION: N/A

Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

Authorization Number: TXR040542

Reporting Year (year will be either 1, 2, 3, 4, or 5): 10 (permit renewed but renewal process not yet completed)

Annual Reporting Year Option Selected by MS4:

Calendar Year 2023

Permit Year 2023

Fiscal Year: _____ Last day of fiscal year: (_____)

Reporting period beginning date: (month/date/year) 1/1/2023

Reporting period end date (month/date/year) 12/31/2023

MS4 Operator Level: 3 Name of MS4: Town of Flower Mound

Contact Name: Joseph Whiteley Telephone Number: 972-874-6354

Mailing Address: 2121 Cross Timbers Road Flower Mound, TX 75028 _____

E-mail Address: joseph.whiteley@flower-mound.com

A copy of the annual report was submitted to the TCEQ Region YES X NO _____
Region the annual report was submitted. TCEQ Region 4

B. Status of Compliance with the MS4 GP and SWMP

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

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	X		Operating under SWMP technically approved in 2020.
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		Town staff maintains records for all datasets referenced within the annual report
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	X		The Town has met all eligibility requirements

2. Provide a general assessment of the appropriateness of the selected BMPs. You may use the table below **(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: Public Education, Outreach and Involvement	Stormwater Media Outreach	Yes. The feedback we receive from residents indicates that the FMTV municipal channel, utility bill inserts, and social media posts are still effective education and outreach tools.
1: Public Education, Outreach and Involvement	Municipal Website Stormwater Page	Yes, the feedback we receive from residents indicates the BMP is still effective.
1: Public Education, Outreach and Involvement	Watershed Address Program	Yes, areas where watershed signs are located are near water bodies and are effective at informing the public about the different parts of their watershed and how illegal dumping and illicit discharges negatively impact the watershed

1: Public Education, Outreach and Involvement	Environmental Conservation Commission	Yes, the Environmental Conservation Commission meets monthly to provide input to Town staff regarding environmental concerns within the Town, including stormwater.
1: Public Education, Outreach and Involvement	Community Source Water Protection Program	Yes, the BMP provides valuable and quantifiable water quality data. This data is a tool used by Texas State University and the Town to evaluate the overall health of the surface water in the state of Texas. Staff continues to run the program for sampling locations within city limits. Additionally, clean-up events help to reduce the amount of floatable trash and litter that can contaminate the MS4.
1: Public Education, Outreach and Involvement	Water Quality Education Events	Yes, stormwater quality education events teach the public the importance of reducing stormwater pollution and promote community involvement.
1: Public Education, Outreach and Involvement	Storm Drain Labeling	Yes, the BMP serves as an effective public education tool by informing residents and contractors that the inlets are not part of the sanitary sewer system. New storm drain labels are added as new inlets are constructed and when inlets are discovered that have a missing label.
2: Illicit Discharge Detection and Elimination	Storm Sewer System Map	Yes, the map continues to be updated as new outfalls and inlets are built. It is a useful tool to identify and eliminate illicit discharges.
2: Illicit Discharge Detection and Elimination	On-Site Sewage Disposal System Discharges	Yes, Town requirements for maintenance contracts and immediate investigation of reported discharges ensure that OSS systems are not discharging harmful contaminants into the MS4.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Reporting System	Yes, reports of illicit discharges and other stormwater related violations are tracked and documented through our internal TRAKiT database allowing staff to investigate and enforce Town Ordinance.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Detection & Elimination Training	Yes, field staff that are properly trained can effectively identify and report potential illicit discharges.

3: Construction Site Stormwater Runoff Control	Construction Site Compliance and Enforcement	Yes, our process has allowed for the evaluation of procedures and provides staff with the regulatory authority to enforce stormwater ordinances. The Town has divided stormwater oversight between our Environmental Services, Construction/Building Inspections, and Public Works Departments. Environmental Services and Construction/Building Inspections oversee new private development and Public Works is responsible for the oversight of Capital Improvement Projects (CIP).
3: Construction Site Stormwater Runoff Control	Construction Site Discharge Reporting System	Yes, reports of illicit discharges and other stormwater related violations are tracked and documented through our internal TRAKiT database allowing staff to investigate and enforce Town Ordinance at construction sites.
3: Construction Site Stormwater Runoff Control	Construction Site Inventory	Yes, Town staff currently has a construction site inventory document that is updated as developments are permitted and/or completed. Our TRAKiT database has had a custom report created that will automatically compile all ground disturbing activity within the Town.
3: Construction Site Stormwater Runoff Control	Stormwater Pollution Prevention Plan Review	Yes, reviewing all SWPPPs submitted for private development projects allows staff to identify potential stormwater concerns before construction begins. This BMP also aids the Town in educating operators about their responsibilities under TCEQ permits.
3: Construction Site Stormwater Runoff Control	Staff Training Program	Yes, training staff responsible for construction inspections in stormwater runoff control allows more eyes in more places. This results in better protection of the MS4.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Comprehensive Stormwater Ordinance	Yes, since the adoption of the Stormwater Ordinance staff has used it to enforce stormwater violations through notices and citations. Cases are created and filed using our TRAKiT system.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Stormwater Structural Control Program	Yes, an inventory and map layer of stormwater ponds within the Town allows for effective tracking and inspection should any water quality issues be reported.

4: Post-Construction Stormwater Management in New Development and Redevelopment	Engineering Design Standards	Yes, reviews by the engineering department prior to construction ensure that stormwater controls are built to a defined standard and are effective.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Facility Specific Standard Operating Procedures (SOPs)	Currently, we have SOPs created for Town facilities. Standard operating procedures are created for new facilities as they are constructed throughout the Town.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility and Stormwater Controls Inventory	Yes, the Town currently has a layer in ArcGIS dedicated to Town facilities and their associated stormwater controls. The previously mentioned map is updated as new facilities and controls are constructed.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility Assessment	Yes, having an inspection checklist and schedule allows for facilities to identify potential issues and update structural and behavioral SOPs.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Storm Sewer System Inspection and Maintenance Program	Yes, this allows the Public Works department to ensure all Town owned stormwater controls are maintained on a regular basis.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Operations and Maintenance Training	Yes, training employees whose work regularly involves activities that could be potentially damaging to water quality is necessary to protect the MS4.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Street Cleaning Program	Yes, conducting periodic street sweeping events lowers the amount of sediment in the roadway that may eventually enter the MS4.
7: Authorization for Municipal Construction Activities	Erosion Control Plan Review	Yes, review of erosion control plans for CIP projects ensures that construction of any size has adequately implemented and considered proper stormwater BMPs.
7: Authorization for Municipal Construction Activities	Municipal Construction Site Inspections	Yes, conducting inspections of all municipal construction sites ensures that the Town is holding itself to the same standards it holds private developers.

7: Authorization for Municipal Construction Activities	Stormwater Pollution Prevention Plan Review	Yes, reviewing SWPPPs for applicable CIP projects allows Town staff to identify potential threats to the MS4 before construction begins.
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3. Describe progress towards reducing the discharge of pollutants to the maximum extent practicable. Summarize any information used (such as visual observation, amount of materials removed or prevented from entering the MS4, or if required monitoring data, etc.) to evaluate reductions in the discharge of pollutants. You may use the table (**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: Public Education, Outreach and Involvement	Stormwater Media Outreach	Records of messages posted to social media, the Town television station, and through utility bill inserts.	There were ten (10) stormwater related messages distributed in 2023. Ten (10) were distributed on Facebook, and seven (7) were also posted to Twitter. Three (3) different inserts were sent along with utility bills.	Number of messages distributed	Yes, social media and FMTV allows residents to educate themselves about stormwater quality and water conservation.

1: Public Education, Outreach and Involvement	Municipal Website Stormwater Page	Municipal Website (www.flower-mound.com)	Yes, the SWMP and annual report were added to the website.	Annual Report and SWMP reviewed and posted? (Y/N)	No, this BMP is in place to promote transparency with the community.
1: Public Education, Outreach and Involvement	Watershed Address Program	Public Works' records system	All signs have been installed. Maintenance schedule is ongoing.	Number of signs added.	Yes, signs help make public cognizant of local watersheds.
1: Public Education, Outreach and Involvement	Environmental Conservation Commission	Town Records	ECC met nine (9) times in 2023.	Number of Meetings	Yes, ECC provides citizen input on environmental concerns.
1: Public Education, Outreach and Involvement	Community Source Water Protection Program	Texas Stream Team Records, volunteer correspondence, outreach	Four (4) active volunteers monitored stream segments and one hundred and thirty-four (134) cleanup locations were assigned in 2023.	Number of sites cleaned up or monitored	Yes, monitoring stream segments provides baseline water quality information to state agencies and cleanup events directly reduce contaminants present in the MS4.
1: Public Education, Outreach and Involvement	Water Quality Education Events	Outreach records and correspondence with local schools	Water quality education was conducted at ten (10) elementary schools and five (4) middle schools reaching 1,620 students.	Number of education events conducted	Yes, educating the public and students is a behavioral BMP that promotes awareness and encourages environmentally sustainable practices.

1: Public Education, Outreach and Involvement	Storm Drain Labeling	Public Works' records system	Eighty-seven (87) storm drain labels added.	Number of storm drain labels installed	Yes, storm drain labels discourage illegal discharges.
2: Illicit Discharge Detection and Elimination	Storm Sewer System Map	GIS department recordkeeping. * *Numbers as of most recent reporting. Estimated yearly totals in parenthesis.	In 2023, six thousand, six hundred and seventy-seven (6,677) feet of gravity main, ten (10) manholes and one hundred and nine (109) storm inlets were added to the database	Feet of gravity main, manholes, inlets, added	Yes, this allows staff to recognize potential areas for illegal dumping and illicit discharges.
2: Illicit Discharge Detection and Elimination	On-Site Sewage Disposal System	Town's TRAKiT database	All seven (7) reported discharges were investigated	Number of OSSF discharges reported/investigated	Yes, reporting and investigation of septic discharges directly affects the health of the MS4.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Reporting System	Town's TRAKiT database	Twenty-five (25) cases related to Stormwater – Illicit Discharges. Twenty (20) were residential/ commercial and nineteen (5) were construction.	Number of cases	Yes, this document allows staff to track illicit discharges.

2: Illicit Discharge Detection and Elimination	Illicit Discharge Detection and Elimination Training	Public Works' training records	100% of field departments were reached with training. 100% of all employees in those departments completed training.	Percentage of field departments trained	Yes, a well-trained trained staff can better identify and report issues in the field.
3: Construction Site Stormwater Runoff Control	Construction Site Compliance and Enforcement	Town's TRAKiT database	No updates made to stormwater ordinance. Four (4) NOVs and one (1) citation written. Nine (9) stop-works issued	Enforcement related updates made during reporting year	Yes, enforcing the ordinance reduces the number of contaminates entering the MS4.
3: Construction Site Stormwater Runoff Control	Construction Site Discharge Reporting System	Town's TRAKiT database	Twenty-one (21) stormwater cases created in 2023.	Number of discharges reported/investigated	Yes, staff continues to use the hotline and online reporting to monitor illegal dumping/illicit discharge calls.
3: Construction Site Stormwater Runoff Control	Construction Site Inventory	Town's TRAKiT database	One hundred and sixty-seven (167) private and sixteen (16) public construction projects added to database in 2023.	Number of active sites	Yes, this inventory allows for a more efficient inspection process.
3: Construction Site Stormwater Runoff Control	Stormwater Pollution Prevention Plan Review	Town's TRAKiT database	Twenty-two (22) private development SWPPPs reviewed in 2023.	Number of SWPPPs reviewed.	Yes, reviewing SWPPPs for efficacy directly reduces the impact of construction site discharges.

3: Construction Site Stormwater Runoff Control	Staff Training Program	Public Works' training records	100% of applicable departments reached with training.	Percentage of applicable departments trained.	Yes, a well-trained staff can better identify and report issues in the field.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Comprehensive Stormwater Ordinance	Continue enforcement of stormwater ordinance through notices and citations.	Three (3) NOVs, nine (9) stop-work orders, and zero (1) citation written.	Number of citations and notices of violation	Yes, staff continued enforcement of the ordinance in 2022.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Stormwater Structural Control Program	Create an inventory of all stormwater ponds in the Town	No ponds were added to Town inventory in 2023.	Number of ponds added to Town inventory in 2022.	Yes, having an up-to-date inventory will aid in future inspection requirements.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Engineering Design Standards	Standards posted on Town website and distributed/ discussed during review periods and construction.	100% of private developments reviewed per Town SOP.	Percentage of new developments reviewed	Yes, Town engineering standards ensure that developers are building and installing adequate stormwater protection features.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Facility Specific Standard Operating Procedures (SOPs)	Public Works' records system	Twenty (22) of twenty-two (22), or (100%) of SOPs were reviewed by Town staff in 2023.	Percentage of SOP's reviewed.	Yes, SOPs ensure that employees are aware of the proper way to handle spills and stormwater concerns.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility and Stormwater Controls Inventory	Town Network Map	Stormwater control inventory continues to be maintained.	Facilities and stormwater controls added to the map periodically.	Yes, adding stormwater control features to the map allows staff to locate and inspect them more efficiently.

5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility Assessment	Facility Inspections Checklist	Checklist Completed. Six (6) facility inspections were conducted with the checklist.	Checklist completed? (Y/N), Inspections conducted.	Yes, this helps staff identify issues at Town facilities to prevent stormwater pollution.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Storm Sewer System Inspection and Maintenance Program	Cityworks Database	Two hundred and sixty-four (264) stormwater controls inspected in 2023.	Number of stormwater controls inspected	Yes, this ensures town controls are operating correctly.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Operations and Maintenance Training	Public Works' training records	All O&M employees completed the annual training.	Number of applicable employees trained	Yes, O&M employees handle materials and tasks that could be hazardous to the MS4.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Street Cleaning Program	Public Works' records	Four (4) street sweeping events completed in 2023.	Number of streets sweeping events completed.	Yes, this BMP keeps sediment from accumulating in the roadways and potentially migrating into the MS4.
7: Authorization for Municipal Construction Activities	Erosion Control Plan Review	Public Works' records	Nine (9) erosion control plans were reviewed in 2023.	Number of erosion control plans reviewed for CIP projects.	Yes, this BMP allows the town to make sure that CIP projects are implementing appropriate stormwater BMPs.

7: Authorization for Municipal Construction Activities	Municipal Construction Site Inspections	Public Works' records	One hundred and twenty-eight (128) BMP inspections were performed on CIP projects along with daily general inspections for each site.	Number of municipal construction site inspections.	Yes, this BMP allows the town to make sure that CIP projects are implementing appropriate stormwater BMPs.
7: Authorization for Municipal Construction Activities	Stormwater Pollution Prevention Plan Review	Public Works' records	Two (2) Stormwater Pollution Prevention Plan Reviews occurred in 2023.	Number of SWPPPs reviewed for CIP projects.	Yes, this BMP allows the town to make sure that CIP projects are implementing appropriate stormwater BMPs.

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)	Explain progress toward goal or how goal was achieved If goal was not accomplished, please explain
1	Post 3 stormwater quality messages.	Met goal- 10 stormwater quality messages were posted.
1	Review the website and add annual report and SWMP each year	Met goal - The stormwater webpage was updated as needed.
1	Install 10 additional watershed signs in designated areas without signage	Met goal- All signs have been installed and maintained per schedule.

1	Meet with the ECC at least quarterly	Met goal- ECC held a total of nine (9) meetings in 2023.
1	Work with volunteers to monitor and/or clean up at least 10 locations annually	Met goal- five (4) stream segments monitored and one hundred and thirty-four (134) clean-up stations assigned.
1	Conduct 10 water quality education events annually	Met goal – Conducted fourteen (14) water quality education events.
1	Storm Drain Labeling	Met goal - installed eighty-seven (87) storm drain labels.
2	Add all new storm system features to the Storm Sewer System Map annually	Met goal - Updates continue to be made.
2	Investigate 100% of potential OSSF discharges to MS4 and send deficiency letters to 100% of properties that do not maintain a maintenance contract.	Met goal – Seven (7) OSSF discharges reported and investigated. The Town complies with Ch. 285 relative to maintenance contracts for applicable OSSFs.
2	Investigate 100% of reported illicit discharges.	Met goal- Twenty-five (25) illicit discharges reported and investigated.
2	Train at least 75% of departments containing field staff annually.	Met goal – 100% of field departments reached with training.
3	Enforce and update the ordinance. Document enforcement actions taken during reporting year.	Met goal - No updates made to ordinance. Ordinance enforced with notices of violation, citations, and permit holds.
3	Investigate 100% of reported construction site discharges.	Met goal- All construction site violations reported investigated.
3	Maintain and updated database as new sites are added throughout the Town.	Met goal- The Town's stormwater inventory database was updated throughout the year.

3	Review and comment on all SWPPPs submitted to the Town for Review.	Met goal – Twenty-two (22) SWPPPs submitted and reviewed.
3	Train 100% of departments which enforce construction site stormwater requirements annually.	Met goal – 100% of applicable departments reached with training.
4	Enforce all provisions of the stormwater ordinance and document any violations and/or enforcement measures	Met goal - Ordinance is enforced through permit holds, NOVs, and citations as violations occur.
4	Update inventory of all stormwater ponds in the Town	Met goal- No town-maintained ponds added. The process is being updated to capture relevant water features for future inspection needs.
4	Review engineering plans for all new development and redevelopment to ensure that they comply with Town's design standards for structural stormwater controls.	Met goal – The development consists of multiple engineering and environmental reviews to ensure standards are met.
5	Review 50% of existing SOPs annually	Met goal – 22/22 (100%) SOPs from all departments were reviewed and updated in 2023.
5	Review the Facility Inventory and Facility Map annually	Met goal- Updates are made when new controls are constructed within the Town
5	Finalize and complete the facility inspections checklist	Met goal- Checklist developed and six (6) facility inspections conducted.
5	Inspect at least 100 stormwater controls annually	Met goal- Town staff inspected two hundred and sixty-four (264) stormwater controls.

5	Conduct Operations and Maintenance Program Training Annually	Met goal – All O&M employees trained.
5	Conduct two street sweeping events annually	Met goal – Four (4) street sweeping events conducted in 2023.
7	Review all erosion control plans for municipal construction activities.	Met goal – Nine (9) erosion control plans were reviewed for applicable municipal construction activities in 2023.
7	Conduct stormwater inspections at all municipal construction activities	Met goal – One hundred and twenty-eight (128) erosion control specific inspections were conducted alongside daily checks for municipal construction activities in 2023.
7	Review all SWPPPs for municipal construction activities	Met goal – Two (2) municipal projects requiring a SWPPP were reviewed in 2023.

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.? (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(b))

Sampling was not conducted by the Town of Flower Mound in 2023 as part of the implementation of the dry weather screening program due to manpower and turnover issues. Citizen Scientists from our Texas Stream Team program provide our Stormwater Department with water quality data.

During 2023 the Town inspected 264 stormwater controls (outfalls, inlets, and manholes). No items of concern were noted during infrastructure inspections. Staff also responded to several reports from citizens of illicit discharges in local waterways from residential and construction-related sources. Biological processes, such as a bio-sheens and algae growth, are often mistaken by our residents as water pollution.

D. Impaired Waterbodies

1. 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: (Refer to MS4 General Permit TXR040000 Part IV Section B.2.(c))

In 2023 the Town paused its dry weather sampling program due to manpower constraints. Our dry weather sampling program has identified sampling locations throughout the Town that will monitor seven (7) water quality parameters. The dry weather sampling will allow us to determine baseline values for each location, as well as providing continuous monitoring of pH levels for streams which discharge into Grapevine Lake once we graduate from a level 3 to level 4 small MS4.

In addition, Citizen Scientists from our Texas Stream Team program provide our Stormwater Department with water quality data, including pH data.

2. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)):

Not applicable to the Town of Flower Mound

3. Report the benchmark identified by the MS4 and assessment activities (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)(6)):

Benchmark Parameter <i>(Ex: Total Suspended Solids)</i>	Benchmark Value	Description of additional sampling or other assessment activities	Year(s) conducted
pH level	< 9	According to the 2018 Texas Integrated Report Index of Water Quality Impairments, Grapevine Lake has been listed as impaired due to the pH level since 2012. It is listed as 5c which means no TMDL has been created. Streams discharging into Grapevine Lake will continually be monitored at predetermined sampling sites under our Dry Weather Sampling Program to ensure that the Town is not contributing to the pH impairment.	9

4. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)(4)):

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
pH level	Sampling/monitoring and public education.	Water quality information will continue to be disseminated by multiple methods and will allow for the determination of baseline levels of pH in the streams discharging into Grapevine Lake. If any streams are found to have consistently high pH this will help us to determine potential sources of pollution.

5. If applicable, report on focused BMPs to address impairment for bacteria (Refer to the MS4 General Permit TXR040000; Part II Section D.4.(a)(5)):

Description of bacteria-focused BMP	Comments/Discussion
N/A	N/A

6. Assess the progress to determine BMP's effectiveness in achieving the benchmark (Refer to the MS4 General Permit TXR040000; Part II.D.4.(a)(6)):

For example, the MS4 may use the following benchmark indicators:

- **number of sources identified or eliminated;**
- **decrease in number of illegal dumping;**
- **increase in illegal dumping reporting;**
- **number of educational opportunities conducted;**

- **reductions in sanitary sewer flows (SSOs)**
- **increase in illegal discharge detection through dry screening**

Benchmark Indicator	Description/Comments	
Number of educational opportunities conducted	The Town conducted educational events at ten (10) elementary schools and four (4) middle schools reaching 1,620 students.	
Illegal discharge detection through dry screening	264 stormwater controls were inspected. The Town's dry weather sampling program was evaluated again in 2023 with thirty-eight (38) locations identified for future sampling.	

E. Stormwater Activities

Describe stormwater activities the MS4 operator plans to undertake during the next reporting year. You may use the table below (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(d)):

MCM(s)	BMP	Stormwater Activity	Description/Comments
1: Public Education, Outreach and Involvement	Municipal Stormwater Quality Messages	Post 3 stormwater quality messages	The Town plans to educate the public regarding stormwater quality and pollution prevention by posting to social media and Flower Mound TV
1: Public Education, Outreach and Involvement	Municipal Website with stormwater quality information	Review the website and add the annual report and SWMP each year.	The Town plans to add the annual report and revised SWMP to the website each year and will update other stormwater pages as necessary.
1: Public Education, Outreach and Involvement	Watershed Address Program	Continue inspection of signage per 10-year traffic sign replacement cycle.	The Town is going to inspect watershed address signs and replace/repair as needed.

1: Public Education, Outreach and Involvement	Public Meetings	Meet with the ECC at least quarterly	Town staff will meet with the Environmental Conservation Commission to discuss environmental issues affecting the Town.
1: Public Education, Outreach and Involvement	Community Source Water Protection Program	Work with volunteers to monitor and/or clean up at least 10 locations annually	Town staff will work with volunteers to monitor and/or clean 10 locations throughout the Town.
1: Public Education, Outreach and Involvement	Water Quality Education Events	Conduct 10 water quality education events annually	Town staff will conduct at least 10 water quality education events.
1: Public Education, Outreach and Involvement	Storm Drain Labeling	Install at least 50 storm drain labels annually and/or continue maintenance.	Town staff will install at least 50 storm drain labels on new inlets and inlets where labels are missing or damaged.
2: Illicit Discharge Detection and Elimination	Storm Sewer System Map	Add all new storm system features to the Storm Sewer System Map annually	The Town plans to continue updating our storm sewer system map annually
2: Illicit Discharge Detection and Elimination	On-Site Sewage Disposal Systems	Investigate 100% of potential OSSF discharges to MS4 and send deficiency letters to 100% of properties that do not maintain a maintenance contract	Town staff will investigate all potential discharges and will monitor the registered OSSFs throughout the Town.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Reporting System	Investigate 100% of reported illicit discharges	Town staff will investigate all reported illicit discharges to the MS4.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Detection and Elimination Training	Train at least 75% of departments containing field staff annually	Town staff will be trained regarding how to prevent and reduce stormwater pollution from illicit discharges

3: Construction Site Stormwater Runoff Control	Comprehensive stormwater ordinance	Enforce and update the ordinance. Document enforcement actions taken during reporting year	Town staff will continue to enforce the stormwater ordinance at construction sites and will update the ordinance if necessary.
3: Construction Site Stormwater Runoff Control	Construction Site Discharge Reporting System	Investigate 100% of reported construction site discharges	Town staff will investigate all reported construction site discharges
3: Construction Site Stormwater Runoff Control	Maintain a Construction Site Inventory Database	Maintain and update database as new sites are added throughout the Town	Town staff will add any new construction sites that occur during the calendar year to the database
3: Construction Site Stormwater Runoff Control	SWPPP Review	Review and comment on all SWPPPs submitted to the Town for review	Town staff will review all SWPPPs developed for construction activities.
3: Construction Site Stormwater Runoff Control	Staff Training Program	Train 100% of departments which enforce construction site stormwater requirements	Town staff will conduct trainings for all departments which enforce the comprehensive stormwater ordinance at construction sites.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Comprehensive Stormwater Ordinance	Enforce all provisions of the stormwater ordinance and document any violations and/or enforcement measures	Town staff will continue to enforce the stormwater ordinance and maintain documentation for violations and enforcement measures.

4: Post-Construction Stormwater Management in New Development and Redevelopment	Evaluate and Enforce the Stormwater Inspections Program	Update inventory of all stormwater ponds in the Town	Town staff will create an inventory of all stormwater ponds located in the Town.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Engineering Design Standards	Review engineering plans for all new development and redevelopment to ensure that they are in compliance with the Town's design standards for structural stormwater controls	Town staff will review engineering plans for development projects to ensure that they are in compliance with the Town's design standards
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Facility Specific Standard Operating Procedures	Review 50% of existing SOP(s) annually	Town staff will review the SOPs for Town facilities and update them as necessary
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility and Stormwater Controls Inventory	Review the Facility Inventory and Facility Map annually	Town staff will review the facility inventory and map and make any necessary changes
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility Assessment	Develop a plan and checklist for facility inspections	Town staff will develop a facility assessment plan and checklist
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Inspection and Maintenance Program	Inspect at least 100 stormwater controls annually	Town staff will inspect at least 100 stormwater controls

5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Operations and Maintenance Training	Conduct operations and maintenance program training annually	Town staff will conduct training for all operations and maintenance departments
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Street Cleaning Plan	Conduct two (2) street sweeping events annually	Town staff will ensure that two (2) street sweeping events are conducted in compliance with the Town's street cleaning plan
7: Authorization for Municipal Construction Activities	Erosion Control Plan Review	Review all erosion control plans for municipal construction activities	Town staff will review erosion control plans for all municipal construction activities
7: Authorization for Municipal Construction Activities	Municipal Construction Site Inspections	Conduct stormwater inspections at all municipal construction activities	Town staff will conduct stormwater inspections at all municipal construction activities
7: Authorization for Municipal Construction Activities	Stormwater Pollution Prevention Plan Review	Review all SWPPPs for municipal construction activities	Town staff will review SWPPPs developed for municipal construction activities

F. SWMP Modifications

- 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 (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(e)):

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.

- 2. Explain additional changes or proposed changes not previously mentioned (i.e., dates, contacts, procedures, annexation of land etc.):**
Not applicable

G. 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 (Refer to the MS4 General permit TXR040000 Part IV Section B.2.(f)).

BMP	Description	Implementation Schedule (Start Date etc.)	Status / Completion Date (completed, in progress, not started)
N/A	N/A	N/A	N/A

H. Additional Information

1. Is the permittee relying on another entity to satisfy some of its permit obligations? (refer to the MS4 General Permit TXR040000 Part IV Section B.2.(g))

☐ Yes ☒ No

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

Name and Explanation:

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

If 'Yes,' list all associated authorization numbers, permittee names, and SWMP responsibilities of each member. (add additional spaces or pages if needed):

Authorization Number: _____

Permittee: _____

I. Construction Activities

1. The number of construction activities that occurred in the jurisdictional area of the MS4 (Notices of intent and site notices received; Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(h)) 167 (includes single family dwellings)

2a. Does the permittee utilize the optional 7th MCM related to construction?

☒ Yes ☐ No

2b. If 'yes,' then provide the following information for this permit year (refer to the MS4 General Permit TXR040000 Part IV Section B.2.(i)):

The number of municipal construction activities authorized under this general permit	11
The total number of acres disturbed for municipal construction projects	Municipal projects covered under this MCM disturbed a total of 11.82 acres in 2023.

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

J. Certification

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): JOSEPH WHITELEY Title: ENV. REVIEW ANALYST

Signature:  Date: March 27, 2024

Name of MS4 TOWN OF FLOWER MOUND

Name (printed): Matthew Woods Title: Director of Environmental Services

Signature:  Date: March 27, 2024

Name of MS4 Town of Flower Mound

Name (printed): Tommy Dalton Title: Assistant Town Manager

Signature:  Date: 3/28/2024

Name of MS4 Town of Flower Mound

Name (printed): James. W. Childers Title: Town Manager

Signature:  Date: 3/28/2024

Name of MS4

Name (printed): _____ Title: _____

Signature: _____ Date: _____

Name of MS4

Note: 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).



Town of Flower Mound
Stormwater Management Program

AS REQUIRED PURSUANT TO:

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT FOR STORMWATER FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s) [TXR040000]

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PART I PREFACE

Stormwater Management Plan Overview

Regulatory Requirement

Phase I of the U.S. Environmental Protection Agency's (EPA) Stormwater program was promulgated in 1990 under the Clean Water Act (CWA). Phase I relies on National Pollutant Discharge Elimination System (NPDES) permit coverage to address Stormwater runoff from: (1) "medium" and "large" municipal separate storm sewer systems (MS4s) generally serving populations of 100,000 or greater, (2) construction activity disturbing 5 acres of land or greater, and (3) ten categories of industrial activity.

The Stormwater Phase II Final Rule is the next step in EPA's effort to preserve, protect, and improve the Nation's water resources from polluted Stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas and operators of small construction sites, through the use of NPDES permits, to implement programs and practices to control polluted Stormwater runoff.

Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of Stormwater discharges that have the greatest likelihood of causing continued environmental degradation.

On September 14, 1998, EPA authorized Texas to develop and implement the Texas Pollutant Discharge Elimination System (TPDES) permit. Under the terms of this authority, the Texas Commission on Environmental Quality (TCEQ) assumes the role of Stormwater permitting authority for industrial activities, small and large construction activities, and all regulated MS4s.

On January 16, 2019, the TCEQ issued the new TPDES General Permit TXR040000 authorizing the discharge of Stormwater to surface water in the state from small municipal separate storm sewer systems (MS4s). Small MS4 operators that are required to obtain authorization under this general permit must submit a Stormwater management program (SWMP) and a completed notice of intent (NOI) form to the TCEQ by July 23, 2019.

Minimum Control Measures

To meet the requirements for the TPDES general permit, the Town's Stormwater Management Program (SWMP) must provide minimum control measures (MCMs) for the following subject areas:

- Public Education, Outreach and Involvement
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management in New Development and Redevelopment
- Pollution Prevention and Good Housekeeping for Municipal Operations

In addition to the required MCMs, the Town is also electing to utilize the optional seventh MCM, Authorization for Construction Activities where the Small MS4 is the Site Operator. After extensive research and review, Town staff has selected the following specific BMPs for implementation during the five (5) year permit period:

Stormwater Program Best Management Practices	
1.1	Stormwater Media Outreach
1.2	Municipal Website Stormwater Page
1.3	Watershed Address Program
1.4	Environmental Conservation Commission
1.5	Community Source Water Protection Program
1.6	Water Quality Education Events
1.7	Storm Drain Labeling
2.1	Storm Sewer System Map
2.2	On-Site Sewage Disposal System Discharges
2.3	Illicit Discharge Reporting System
2.4	Illicit Discharge Detection & Elimination Training
3.1	Construction Site Compliance and Enforcement
3.2	Construction Site Discharge Reporting System
3.3	Construction Site Inventory
3.4	Stormwater Pollution Prevention Plan Review
3.5	Staff Training Program
4.1	Comprehensive Stormwater Ordinance
4.2	Stormwater Structural Control Program
4.3	Engineering Design Standards
5.1	Facility Specific Standard Operating Procedures
5.2	MS4 Facility and Stormwater Controls Inventory
5.3	MS4 Facility Assessment
5.4	MS4 Storm Sewer System Inspection and Maintenance Program
5.5	MS4 Operations and Maintenance Training
5.6	Street Cleaning Program
7.1	Erosion Control Plan Review
7.2	Municipal Construction Site Inspections
7.3	Stormwater Pollution Prevention Plan Review

Recordkeeping and Reporting Requirements

A primary component of the MS4 general permit is recordkeeping that allows for periodic evaluation of the management plan and for annual reporting to the TCEQ on the status of the plan. Specifically, Phase II MS4s are required to:

- Retain all records, a copy of the TCEQ general permit, and records of all data used to complete the NOI for a period of three years or for the term of the TCEQ permit, whichever is longer.
- Retain a copy of the SWMP at a location accessible to the TCEQ.
- Make the records, including the NOI and SWMP, available to the public if requested to do so, in writing. The SWMP must be made available within ten (10) working days from the receipt of a written request. Other records must be provided in accordance with the Texas Public Information Act. Reasonable charges, in accordance with Texas law, may be levied by the permittee for researching and preparing any requested materials.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

The general reporting requirements for MS4s include:

Noncompliance Notification – Any noncompliance which may endanger human health or safety, or the environment, in accordance with 30 TAC Chapter 305.125(9), must be reported by the MS4 to the TCEQ. Oral and/or facsimile notification of the noncompliance will be made immediately upon becoming aware of the issue. A written report must be provided to the TCEQ within five (5) working days. Additionally, the MS4 must promptly submit to TCEQ any facts or information relevant to an NOI, Notice of Termination (NOT), Notice of Change (NOC), or any other report.

Annual Report – MS4s must submit a concise annual report to the TCEQ Executive Director within 90 days of the end of the reporting period. **The Town of Flower Mound has chosen to submit annual reports on the calendar-year schedule.** Each reporting period will end on December 31st, and an annual report will be submitted 90 days thereafter. A copy of the annual report must be readily available for review by authorized TCEQ personnel. The report generally includes the status of compliance with permit conditions, assessment of the BMPs defined in the SWMP and their relative effectiveness, progress towards reducing the discharge of pollutants into the MS4, and an evaluation of the success of the implementation of the measurable goals for each of the MCMs. The annual report should also include a summary of proposed changes to the SWMP planned for the next reporting cycle.

A copy of the TPDES General Permit No. TXR040000 is included in Appendix A of this document.

Definitions

Arid Areas - Areas with an average annual rainfall of less than ten (10) inches.

Best Management Practices (BMPs) - Schedules of activities, prohibitions of practices, maintenance procedures, structural controls, local ordinances, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control runoff, spills or leaks, waste disposal, or drainage from raw material storage areas.

Classified Segment - refers to a water body that is listed and described in Appendix A or Appendix C of the Texas Surface Water Quality Standards, at 30 TAC § 307.10.

Clean Water Act (CWA) - The Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972, Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.

Common Plan of Development or Sale - A construction activity that is completed in separate stages, separate phases, or in combination with other construction activities. A common plan of development or sale is identified by the documentation for the construction project that identifies the scope of the project, and may include plats, blueprints, marketing plans, contracts, building permits, a public notice or hearing, zoning requests, or other similar documentation and activities.

Construction Site Operator - The person or persons associated with a small or large construction project that meets either of the following two criteria:

- (a) The person or persons that have operational control over construction plans and specifications (including approval of revisions) to the extent necessary to meet the requirements and conditions of this general permit; or
- (b) The person or persons that have day-to-day operational control of those activities at a construction site that are necessary to ensure compliance with a Stormwater pollution prevention plan for the site or other permit conditions (e.g. they are authorized to direct workers at a site to carry out activities required by the Stormwater Pollution Prevention Plan or comply with other permit conditions).

Control Measure - Any BMP or other method used to prevent or reduce the discharge of pollutants to water in the state.

Conveyance - Curbs, gutters, man-made channels and ditches, drains, pipes, and other constructed features designed or used for flood control or to otherwise transport Stormwater runoff.

Daily Maximum - For the purposes of compliance with the numeric effluent limitations contained in this permit, this is the maximum concentration measured on a single day, by grab sample, within a period of one calendar year.

Discharge - When used without a qualifier, refers to the discharge of Stormwater runoff or certain non-Stormwater discharges as allowed under the authorization of this general permit.

Final Stabilization - A construction site where either of the following conditions are met:

- (a) All soil disturbing activities at the site have been completed and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

- (b) For individual lots in a residential construction site by either:
 - (1) The homebuilder completing final stabilization as specified in condition (a) above;
 - or
 - (2) The homebuilder establishing temporary stabilization for an individual lot prior to the time of transfer of the ownership of the home to the buyer and after informing the homeowner of the need for, and benefits of, final stabilization.
- (c) For construction activities on land used for agricultural purposes (e.g. pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to a surface water and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization conditions of condition (a) above.
- (d) In arid, semi-arid, and drought-stricken areas only, all soil disturbing activities at the site have been completed and both of the following criteria have been met:
 - (1) Temporary erosion control measures (e.g., degradable rolled erosion control product) are selected, designed, and installed along with an appropriate seed base to provide erosion control for at least three years without active maintenance by the operator, and
 - (2) The temporary erosion control measures are selected, designed, and installed to achieve 70 percent vegetative coverage within three years.

Ground Water Infiltration - For the purposes of this permit, groundwater that enters a municipal separate storm sewer system (including sewer service connections and foundation drains) through such means as defective pipes, pipe joints, connections, or manholes.

Illicit Connection - Any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

Illicit Discharge - Any discharge to a municipal separate storm sewer that is not entirely composed of Stormwater, except discharges authorized under this general permit or a separate authorization and discharges resulting from firefighting activities.

Indian Country - Defined in 18 USC Section 1151, means (a) all land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation; (b) all dependent Indian communities within the borders of the United States whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a state, and (c) all Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same. This definition includes all land held in trust for an Indian tribe.

Industrial Activities - Manufacturing, processing, material storage, and waste material disposal areas (and similar areas where Stormwater can contact industrial pollutants related to the industrial activity) at an industrial facility described by the TPDES Multi Sector General Permit, TXR050000, or by another TCEQ or TPDES permit.

Large Construction Activity - Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than five (5) acres of land. Large construction activity also includes the disturbance of less than five (5) acres of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than five (5) acres of land. Large construction activity does not include routine

maintenance that is performed to maintain the original line and grade, hydraulic capacity, and original purpose of a ditch, channel, or other similar Stormwater conveyance. Large construction activity does not include the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities.

Maximum Extent Practicable (MEP) - The technology-based discharge standard for municipal separate storm sewer systems to reduce pollutants in Stormwater discharges that was established by CWA §402(p). A discussion of MEP as it applies to small MS4s is found at 40 CFR 122.34.

MS4 Operator - For the purpose of this permit, the public entity, and/ or the entity contracted by the public entity, responsible for management and operation of the small municipal separate storm sewer system that is subject to the terms of this general permit.

Municipal Separate Storm Sewer System (MS4) - A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (a) Owned or operated by the U.S., a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over the disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under the CWA §208 that discharges to the surface water in the state;
- (b) That is designed or used for collecting or conveying stormwater;
- (c) That is not a combined sewer; and
- (d) That is not part of a publicly owned treatment works (POTW) as defined in 40 CFR §122.2.

Notice of Change (NOC) - Written notification from the permittee to the executive director providing changes to information that was previously provided to the agency in a notice of intent.

Notice of Intent (NOI) - A written submission to the executive director from an applicant requesting coverage under this general permit.

Notice of Termination (NOT) - A written submission to the executive director from a permittee authorized under a general permit requesting termination of coverage under this general permit.

Outfall - For the purpose of this permit, a point source at the point where a municipal separate storm sewer discharges to waters of the United States (U.S.) and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels, or other conveyances that connect segments of the same stream or other waters of the U.S. and are used to convey waters of the U.S.

Permittee - The MS4 operator authorized under this general permit.

Permitting Authority - For the purposes of this general permit, the TCEQ.

Point Source - (from 40 CFR § 122.22) Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural Stormwater runoff.

Pollutant(s) of Concern - Include biochemical oxygen demand (BOD), sediment or a parameter that addresses sediment (such as total suspended solids, turbidity or siltation), pathogens, oil and grease, and any pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from an MS4. (Definition from 40 CFR Section 122.32(e)(3)).

Redevelopment - alterations of a property that changes the “footprint” of a site or building in such a way that there is a disturbance of equal to or greater than 1 acre of land. This term does not include such activities as exterior remodeling.

Semiarid Areas - Areas with an average annual rainfall of at least ten (10) inches, but less than 20 inches.

Small Construction Activity - Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than one (1) acre and less than five (5) acres of land. Small construction activity also includes the disturbance of less than one (1) acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one (1) and less than five (5) acres of land. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, and original purpose of a ditch, channel, or other similar Stormwater conveyance. Small construction activity does not include the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities.

Small Municipal Separate Storm Sewer System (MS4) - A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (a) Owned or operated by the United States, a state, city, town, borough, county, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, Stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under § 208 of the CWA;
- (b) Designed or used for collecting or conveying Stormwater;
- (c) Which is not a combined sewer;
- (d) Which is not part of a publicly owned treatment works (POTW) as defined at 40 CFR § 122.2; and
- (e) Which was not previously authorized under a NPDES or TPDES individual permit as a medium or large municipal separate storm sewer system, as defined at 40 CFR §122.26(b)(4) and (b)(7).

This term includes systems similar to separate storm sewer systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. This term does not include separate storm sewers in very discrete areas, such as individual buildings. For the purpose of this permit, a very discrete system also includes storm drains associated with certain municipal offices and education facilities serving a nonresidential population, where those storm drains do not function as a system, and where the buildings are not physically interconnected to an MS4 that is also operated by that public entity.

Stormwater and Stormwater Runoff - Rainfall runoff, snow melt runoff, and surface runoff and drainage.

Stormwater Associated with Construction Activity - Stormwater runoff from an area where there is either a large construction activity or a small construction activity.

Stormwater Management Program (SWMP) - A comprehensive program to manage the quality of Stormwater discharged from the municipal separate storm sewer system.

Structural Control (or Practice) - A pollution prevention practice that requires the construction of a device, or the use of a device, to capture or prevent pollution in Stormwater runoff. Structural controls and practices may include but are not limited to: wet ponds, bioretention, infiltration basins, Stormwater wetlands, silt fences, earthen dikes, drainage swales, vegetative lined ditches, vegetative filter strips, sediment traps, check dams, subsurface drains, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins.

Surface Water in the State - Lakes, bays, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, wetlands, marshes, inlets, canals, the Gulf of Mexico inside the territorial limits of the state (from the mean high water mark (MHW) out 10.36 miles into the Gulf), and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, navigable or non-navigable, and including the beds and banks of all water-courses and bodies of surface water, that are wholly or partially inside or bordering the state or subject to the jurisdiction of the state; except that waters in treatment systems which are authorized by state or federal law, regulation, or permit, and which are created for the purpose of waste treatment are not considered to be water in the state.

Total Maximum Daily Load (TMDL) - The total amount of a substance that a water body can assimilate and still meet the Texas Surface Water Quality Standards.

Traditional Small MS4 - A small MS4 that can pass ordinances and have the enforcement authority to enforce the stormwater management program. An example of traditional MS4s includes cities.

Urbanized Area (UA) - An area of high population density that may include multiple MS4s as defined and used by the U.S. Census Bureau in the 2000 decennial census.

Waters of the United States - (from 40 CFR Section 122.2) Waters of the United States or waters of the U.S. means:

- (a) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- (b) All interstate waters, including interstate wetlands;
- (c) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds that the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
 - (1) Which are or could be used by interstate or foreign travelers for recreational or other purposes;
 - (2) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - (3) Which are used or could be used for industrial purposes by industries in interstate commerce;

- (d) All impoundments of waters otherwise defined as waters of the United States under this definition;
- (e) Tributaries of waters identified in paragraphs (a) through (d) of this definition;
- (f) The territorial sea; and
- (g) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition.
- (h) Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR § 423.11(m) which also meet the criteria of this definition) are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (such as disposal area in wetlands) nor resulted from the impoundment of waters of the United States. Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA.

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Commonly Used Acronyms

BMP	Best Management Practice
CFR	Code of Federal Regulations
CGP	Construction General Permit, TXR150000
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	Environmental Protection Agency
FR	Federal Register
IP	Implementation Procedures
MCM	Minimum Control Measure
MSGP	Multi-Sector General Permit, TXR050000
MS4	Municipal Separate Storm Sewer System
NOC	Notice of Change
NOD	Notice of Deficiency
NOI	Notice of Intent
NOT	Notice of Termination (to terminate coverage under a general permit)
NPDES	National Pollutant Discharge Elimination System
SWMP	Stormwater Management Program
SWP3,	Stormwater Pollution Prevention Plan
SWPPP	
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TPDES	Texas Pollutant Discharge Elimination System
TWC	Texas Water Code

Allowable Non-Stormwater Discharges

The following non-Stormwater sources may be discharged from the small MS4 and are not required to be addressed in the small MS4's Illicit Discharge and Detection or other minimum control measures, unless they are determined by the permittee or the TCEQ to be significant contributors of pollutants to the small MS4:

- a) Water line flushing (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
- b) Runoff or return flow from landscape irrigation, lawn irrigation, and other irrigation utilizing potable water, groundwater, or surface water sources;
- c) Discharges from potable water sources;
- d) Diverted stream flows;
- e) Rising ground waters and springs;
- f) Uncontaminated ground water infiltration;
- g) Uncontaminated pumped ground water;
- h) Foundation and footing drains;

- i) Air conditioning condensation;
- j) Water from crawl space pumps;
- k) Individual residential vehicle washing;
- l) Flows from wetlands and riparian habitats;
- m) Dechlorinated swimming pool discharges;
- n) Street wash water;
- o) Discharges or flows from firefighting activities (firefighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, and similar activities);
- p) Other allowable non-Stormwater discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1);
- q) Non-Stormwater discharges that are specifically listed in the TPDES Multi Sector General Permit (MSGP) or the TPDES Construction General permit (CGP); and
- (r) Other similar occasional incidental non-Stormwater discharges, unless the TCEQ develops permits or regulations addressing these discharges.

Document Organization

The Town of Flower Mound's Stormwater Management Program is organized to aid development and implementation of the programs required by the TPDES MS4 Phase II general permit, and to aid in completion of permit notification documents (NOI) and tracking progress for annual reports.

Part II of the SWMP addresses the six (6) minimum control measures required under the TPDES permit. For each minimum control measures, the following are discussed:

- **Current Programming**

A description of current programming, regulations, procedures, and/or documents that already meet the minimum control measure requirements is provided.

- **Selected BMPs**

A description of the best management practices the Town will implement to address the regulatory requirement.

- **Measurable Goal(s)**

The Town must designate measurable goal(s) for each BMP.

- **Schedule**

The implementation schedule for each BMP is described.

- **Responsible Divisions**

The division(s) responsible for implementation of each BMP is provided.

The appendices provide additional information and copies of documents, regulations, procedures, training materials, and samples of public education/outreach communication items.

PART II MINIMUM CONTROL MEASURES

1. Public Education, Outreach and Involvement

Public Education, Outreach and Involvement

Current Programs

The Town of Flower Mound provides general public education, outreach and involvement by several means of communication through the Town's Community Affairs, Keep Flower Mound Beautiful, Public Works, and Environmental Services divisions. Specifically, the Town has and will continue to provide education to the public about the impacts of stormwater run-off on water quality, proper disposal of waste, and changes they can implement to reduce pollutants in stormwater runoff. This education is offered through the following programs:

- Spring and Fall Waterway Cleanup Events
- Bi-annual Environmental Fair
- Earth Day Event
- Social media outreach
- Household Hazardous Waste Curbside pickup
- Second Grade and Seventh Grade Education Events
- Arbor Day Event
- Implementation of a Water Conservation and Education Program
- Utility Billing Inserts
- Encouragement of Conservation Developments
- Operation of the Town's Tree Farm and Outdoor Learning Area

The Town of Flower Mound has a public Environmental Conservation Commission, which, in part, receives periodic updates on various environmental and stormwater quality related activities conducted by Town staff. This process provides all members of the public an initial opportunity to participate in the SWMP development through public comment. Public involvement/participation opportunities are also associated with the following current Town sponsored programs:

- Neighborhood Cleanup Events
- Adopt-a-Spot/Stream Team Program

Selected BMPs for Public Education, Outreach and Involvement

1.1 Stormwater Media Outreach

The Town of Flower Mound will use the municipal television channel and other communication services to post messages about the stormwater management program that are of interest to all stakeholders within the Town's jurisdictional authority. The Town will relay important information related to stormwater quality and upcoming events, training seminars, and other resources related to the Town's SWMP.

Measurable Goals

The measurable goal for implementation of this BMP is to post three (3) stormwater quality related messages per year during the permit term. Description of each stormwater quality message will be provided in the annual report. The number of inquiries related to the educational or event information provided through the municipal channel will be documented and provided in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Public Education, Outreach and Involvement	Municipal Stormwater Quality Messages	Post 3 stormwater quality messages.	December 2020-2024

Responsible Division(s)

The Community Affairs and Environmental Services Divisions have responsibility for implementation of this BMP to meet Measurable Goal 1.1.

1.2 Municipal Website Stormwater Page

The Town of Flower Mound will use the municipal website (www.flower-mound.com) to inform the public and other interested stakeholders about the SWMP and the annual report. It will include general stormwater quality information as well as topics of interest to the general public such as litter control, pet waste management, water conservation, and proper management of pesticides, fertilizer, used oil and household hazardous waste. Information will also be included to educate businesses and construction site personnel about the impacts of stormwater run-off on water quality and steps they can use to reduce their contribution to stormwater pollution.

Measurable Goals

The measurable goal for implementation of this BMP is to provide continuous updates as needed throughout the duration of the permit and to add the annual report to the website annually. Description of updates to the website will be provided in the annual report. The number of inquiries related to the educational information provided through the municipal website will be documented and provided in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Public Education, Outreach and Involvement	Municipal website with stormwater quality information	Review the website and add the annual report and SWMP each year.	March 2021-2024

Responsible Division(s)

The Environmental Services, Public Works, and Community Affairs Divisions have responsibility for implementation of this BMP to meet Measurable Goal 1.2.

1.3 Watershed Address Program

The Town of Flower Mound has delineated all sub-watershed basins within the Town's jurisdictional authority and, to the maximum extent practical, will place "watershed address" signs within public road and street right-of-ways. The signs will include identification of a watershed as well as a short water quality related social marketing message that is directed to the general public. Additional watershed address signs will be added to any areas in the Town's watershed where it is determined that signage would be beneficial.

Measurable Goal

The Town's Traffic Department will install watershed address signs in the remaining areas that do not yet have signage by December 2020. After all of the sub-watershed areas have had signage installed, the signage will be inspected as part of the Town's 10 year traffic sign replacement cycle and any damaged signs will be replaced.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Public Education, Outreach and Involvement	Watershed Address Program	Install 10 additional watershed signs in designated areas that are without signage	December 2020

Responsible Division(s)

The Environmental Services, Public Works, and Streets Divisions are responsible for developing and implementing this BMP to meet Measurable Goal 1.3.

1.4 Environmental Conservation Commission

The Town of Flower Mound has an Environmental Conservation Commission (ECC) which meets to discuss environmental issues throughout the Town, including water quality and conservation. ECC advises the Town Council regarding water conservation and the future character and health of the Town's bodies of water, stormwater, groundwater, and surface water

Measurable Goals

The measurable goal for implementation of this BMP is for the Town to meet with the ECC at least quarterly to discuss Town environmental issues.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Public Education, Outreach and Involvement	Public Meetings	Meet with the ECC at least quarterly	December 2020-2024

Responsible Division(s)

The Community Affairs and Environmental Services Divisions have responsibility for this BMP to meet Measurable Goal 1.4.

1.5 Community Source Water Protection Program

The Town of Flower Mound has initiated a community-wide water quality public education and participation program designed to involve local residents, businesses, neighborhood associations, and students in the implementation of the Town's SWMP. Utilizing the Texas Stream Team program, the Town will continue to develop, train, and manage a network of volunteer water quality monitors, who will take water quality samples at designated monitoring stations. The data will be submitted online by Town staff and collected in the Texas Stream Team Data Viewer database. The Town currently utilizes an Adopt-a-Spot program which volunteers visit at least quarterly to pick up litter. The Town will also work with local volunteers to host cleanup events aimed at preventing pollution from entering the Town's waterways.

Measurable Goals

The Town will work with volunteers to monitor and/or clean up at least 10 locations per year. The number of volunteers participating will also be documented and provided in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Public Education, Outreach and Involvement	Community Source Water Protection Program	Work with volunteers to monitor and/or clean up at least 10 locations annually	December 2020-2024

Responsible Division(s)

The Environmental Services Division is responsible for developing and implementing this BMP to meet Measurable Goal 1.5.

1.6 Water Quality Education Events

The Town of Flower Mound provides information regarding watersheds, stormwater, and water quality to students in Lewisville ISD to 2nd and 7th grade classes on an annual basis. The

Town also routinely visits with groups of Boy and/or Girl Scouts regarding water quality and provides water quality education at other events as requested.

Measurable Goals

The number of events that the Town participates in will be documented and provided in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Public Education, Outreach and Involvement	Water Quality Education Events	Conduct 10 water quality education events annually	December 2020-2024

Responsible Division(s)

The Environmental Services and Public Works Division is responsible for developing and implementing this BMP to meet Measurable Goal 1.6.

1.7 Storm Drain Labeling

The Town of Flower Mound will continue installing storm drain labels for all new residential and commercial developments to make the public aware of where stormwater inlets lead and the importance of preventing pollution from entering the inlets to keep our waterways clean.

Measurable Goals

The Town will label at least 50 storm sewer inlets during permit years one through five to promote the proper disposal of waste. Labels will identify the local waterway that each inlet leads to and the number of labels installed will be documented in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Public Education, Outreach and Involvement	Storm Drain Labeling	Install at least 50 storm drain labels annually	December 2020-2024

Responsible Division(s)

The Public Works Division is responsible for developing and implementing this BMP to meet Measurable Goal 1.7.

2. Illicit Discharge Detection and Elimination

Current Programs

Currently, the Town of Flower Mound utilizes a GIS database system to track the Town's MS4 infrastructure and jurisdictional waters. Mapping of future additions to the infrastructure, which includes the stormwater drainage system, will be included in this project. The Town's Environmental Services Division, Public Works Division, and Fire Chief's Office investigate reported or discovered illicit discharges and spills and work with the responsible party to resolve all situations. All responsible divisions have the authority to investigate and enforce against any hazardous and non-hazardous illegal dumping activities. Additional programs currently implemented that are related to illicit discharge detection and elimination include:

- Neighborhood Cleanup Events in conjunction with the bi-annual Environmental Fair
- Household Hazardous Waste Curbside Pickup
- All commercial grease traps are inspected by the Environmental Services Department periodically to ensure that they are properly maintained
- Town Code of Ordinances provisions:
 - Authority to control and regulate waste discharge and require pretreatment
 - Enforcement by authority to disconnect service or access penalties for violations
 - Reporting requirements by industrial waste pretreatment permittees
 - Prohibit persons to dump, or permit to be dumped, knowingly or intentionally, upon any sidewalk, alley, street, into or adjacent to water, or any other public or private property, any unwholesome water, refuse, rubbish, trash, debris, filth, carrion, junk, garbage, impure or unwholesome matter of any kind or other objectionable or unsightly matter of whatever kind
 - Enforcement by accessing penalties for illegal dumping violations

Selected BMPs for Illicit Discharge Detection and Elimination

2.1 Storm Sewer System Map

The Town of Flower Mound has developed a GIS-based storm sewer system map, showing the location of all outfalls and the names and locations of all water of the U.S. that receive discharges from those outfalls. Additionally, the storm sewer map identifies the location of storm sewer pipes, ditches, and other conveyances owned by the Town.

Measurable Goals

The measurable goal for implementation of this BMP is to update the map annually throughout the remainder of the permit. Description of the annual updates to the Storm Sewer System Map will be provided in the annual report.

Schedule

PROGRAM	BMP	ACTIVITY	DATE DUE
Illicit Discharge Detection and Elimination	Storm Sewer System Map	Add all new storm system features to the Storm Sewer System Map annually.	December 2020-2024

Responsible Division(s)

Public Works, Environmental Services, and Information Technology Divisions are responsible for implementation of the storm sewer system map to meet Measurable Goal 2.1.

2.2 On-Site Sewage Disposal Systems

The Town of Flower Mound currently utilizes local ordinance and state regulations to prevent and correct leaking on-site sewage disposal systems.

Upon being notified that a potential illicit discharge has occurred from an On-Site Sewage Facility (OSSF), Town staff will conduct an investigation and take water samples. If the samples come back positive for an OSSF-related discharge then homeowners will be instructed to service their system to eliminate the discharge. Upon being notified that the discharge has been eliminated, Town staff will conduct a follow-up investigation or field screening to verify that the discharge has been eliminated.

The Town also requires that all homeowners who have an aerobic system use a TCEQ licensed maintenance provider to inspect their systems throughout the year and send in the inspections for review by Town Staff. Any property which does not keep a current maintenance contract with a TCEQ licensed maintenance provider is notified by mail to sign up for a maintenance contract.

Measurable Goals

There are two measureable goals for this BMP. The first measurable goal is to investigate 100% of potential On-Site Sewage Facility discharges and have any confirmed discharges eliminated. The second measureable goal is to send deficiency letters to 100% of properties that do not maintain a maintenance contract with a licensed contractor.

Schedule

PROGRAM	BMP	ACTIVITY	DATE DUE
Illicit Discharge Detection and Elimination Program	On-Site Sewage Disposal Systems	Investigate 100% of potential OSSF discharges to MS4 and send deficiency letters to 100% of properties that do not maintain a maintenance contract.	December 2020-2024

Responsible Division(s)

The Environmental Services Division is responsible for developing and maintaining this BMP to meet Measurable Goal 2.2.

2.3 Illicit Discharge Reporting System

The Town of Flower Mound maintains an illicit discharge reporting hotline and online reporting system for the public to report potential illicit discharges. This facilitates the ability for the public to provide information that will assist in detection and elimination of potential illicit discharges. The Town of Flower Mound currently utilizes a database to track all reported illicit discharges and associated investigations. Upon being notified that the discharge has been eliminated, Town staff will conduct and document a follow-up investigation to confirm that the discharge has been eliminated.

Measurable Goals

The measurable goal will be to investigate all potential illicit discharges and make the results of the investigation available online. The number of reports to the hotline and online system will be included in the annual report.

Schedule

PROGRAM	BMP	ACTIVITY	DATE DUE
Illicit Discharge Detection and Elimination	Illicit Discharge Reporting System	Investigate 100% of reported illicit discharges.	December 2020-2024

Responsible Division(s)

The Environmental Services and Public Works Divisions are responsible for implementation of this BMP to meet Measurable Goal 2.2.

2.4 Illicit Discharge Detection and Elimination Training

The Town of Flower Mound has developed a training program for all field staff responsible for Illicit Discharge Detection and Elimination. The training program includes training materials directed at preventing and reducing stormwater pollution from illicit discharges. A list of trainings completed by Town staff will be provided in the annual report.

Measurable Goals

The measurable goal for this BMP will be to train at least 75% of departments containing field staff annually. The total number of employees trained per year will also be documented and provided in the annual reports.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Illicit Discharge Detection and Elimination	Illicit Discharge Detection and Elimination Training	Train at least 75% of departments containing field staff annually.	December 2020-2024

Responsible Division(s)

All applicable divisions are responsible for implementing the training program to meet Measurable Goal 2.4.

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3. Construction Site Stormwater Runoff Control

Current Programs

Currently, the Town of Flower Mound requires that construction sites comply with all federal and/or state stormwater permits. Additionally, the Town currently has existing rules and regulations related to erosion control and stormwater quality requirements related to new residential and/or commercial developments. Stormwater and erosion controls are included in Town ordinances, engineering standards, and enforced through inspections by various departments during all phases of construction related activities. The Town currently requires that all construction sites over an acre submit a SWPPP for review by Town staff.

The Town's comprehensive stormwater ordinance prohibits the following illicit discharges associated with construction:

- Wastewater from washout of concrete and wastewater from water well drilling operations, unless managed by an appropriate control;
- Wastewater from washout and cleanout of stucco, paint, from release oils, and other construction materials;
- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
- Soaps or solvents used in vehicle and equipment washing; and
- Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, unless managed by appropriate BMPs.

Noncompliance can be grounds for the Town to stop inspections and issue citations.

The Town also has staff and procedures for site plan review that incorporates consideration of potential water quality impacts as well as procedures to receive and consider information submitted by the public during the development review process.

Selected BMPs for Construction Site Stormwater Runoff Controls

3.1 Construction Site Compliance and Enforcement

The Town of Flower Mound has a comprehensive stormwater ordinance which has requirements for erosion and sediment controls and proper waste management at construction sites, and enforcement measures to ensure compliance with the requirements. If necessary, additional ordinances or other regulatory mechanisms will be updated to ensure that construction sites are in compliance with state requirements.

Measurable Goals

The measurable goal for implementation of this BMP is continued enforcement of erosion and sediment control procedures and compliance for construction sites for years one through five. Updates to ordinances will be made, if necessary and included in the annual report. The number of violations and enforcement actions taken per year will also be included in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Construction Site Stormwater Controls	Comprehensive Stormwater Ordinance	Enforce and update the ordinance. Document enforcement actions taken during reporting year.	December 2020-2024

Responsible Division(s)

The Environmental Services, Public Works, Building Inspections and Engineering Services Divisions are responsible for developing and implementing this BMP to meet Measurable Goal 3.1.

3.2 Construction Site Discharge Reporting System

The Town of Flower Mound maintains a construction site discharge reporting hotline and online violation reporting system for the public to report construction site problems and/or potential violations. This hotline and online system are utilized along with a general illegal dumping and environmental crimes hotline and online system managed by members of the Town's Environmental Services department. This will facilitate the ability of the public to provide information that will assist in detection of problem discharges.

Measurable Goals

The measurable goal will be to investigate all potential construction site discharges and potential violations which are reported through the hotline and/or the online reporting system. The number of calls to the hotline and/or submitted online will be included in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Construction Site Stormwater Runoff Control	Construction Site Discharge Reporting System	Investigate 100% of reported construction site discharges	December 2020-2024

Responsible Division(s)

The Environmental Services Division is responsible for implementation of this BMP to meet Measurable Goal 3.2.

3.3 Construction Site Inventory

Town staff maintains a database of all permitted active public and private construction sites. The database includes an individual permit number, general permit authorization number (if applicable), project identification, acceptance date, acreage disturbed, and records of inspection and enforcement (if applicable).

Measurable Goals

The measurable goal for this BMP is to maintain a construction site database and add all new development and capital improvement projects to the database as they are initiated. As projects are finished they remain in the database with an updated status reflecting that they are complete. . The total number of construction sites added to the database each year will be reported in the annual report.

Schedule

PROGRAM	BMP	ACTIVITY	DATE DUE
Construction Site Stormwater Runoff Control	Maintain a Construction Site Inventory Database	Maintain and update database as new sites are added throughout the Town	December 2020-2024

Responsible Division(s)

The Environmental Services, Engineering Services and Public Works Divisions are responsible for developing and maintaining this BMP to meet Measurable Goal 3.3.

3.4 Stormwater Pollution Prevention Plan Review

Town staff requires Stormwater Pollution Prevention Plans (SWPPPs) to be developed for all construction activities that disturb one acre of land area or more. Prior to construction projects beginning, the SWPPP is reviewed by Town staff, and comments may be made to address any deficiencies. After project approval, SWPPPs may be reviewed by Town inspectors at any time to ensure that they have been updated as needed and site conditions are reflected appropriately. Signed copies of the Contractor's NOI, or other evidence of State authorization for the Contractor for the appropriate project, will be included with the SWPPP for Town review. Approval of the SWPPP is required prior to start of construction.

Measurable Goals

The Town will review all SWPPPs that are submitted for construction sites which disturb one acre of land or more and will document the number of approved SWPPPs for each year in the annual report.

Schedule

PROGRAM	BMP	ACTIVITY	DATE DUE
Construction Site Stormwater Runoff Control	SWPPP Review	Review and comment on all SWPPPs submitted to the Town for review.	December 2020-2024

Responsible Division(s)

The Environmental Services, Public Works, and Engineering Services Divisions are responsible for implementing the program to meet Measurable Goal 3.4.

3.5 Staff Training Program

The Town of Flower Mound has developed a training program for all field staff responsible for enforcing erosion and sediment control requirements at construction sites. The training program includes training materials directed at preventing and reducing stormwater pollution from illicit discharges. A list of trainings completed by Town staff will be provided in the annual report.

Measurable Goals

The measurable goal for this BMP will be to train 100% of departments containing field staff who enforce construction site stormwater requirements annually. The total number of employees trained per year will also be documented and provided in the annual reports.

Schedule

PROGRAM	BMP	ACTIVITY	DATE DUE
Construction Site Stormwater Runoff Control	Staff Training Program	Train 100% of departments which enforce construction site stormwater requirements annually.	December 2020-2024

Responsible Division(s)

All applicable divisions are responsible for implementing the training program to meet Measurable Goal 3.5.

4. Post-Construction Stormwater Management in New Development and Redevelopment

Current Programs

Currently, the Town of Flower Mound has several ordinances and regulatory requirements to protect water quality by requiring the use of best management practices on all new residential and commercial development projects. Under the Town's SMARTGrowth Program, all new developments are required to address water quality protection measures using structural and/or non-structural BMPs. Additional guidance and ordinances currently implemented that are related to post-construction stormwater management in new development and redevelopments include:

- Adoption of the Town's SMARTGrowth Management Plan that includes an environmental quality category related to the: "preservation of open space, farmland, natural beauty, and sensitive environmental areas is achieved by criteria pertaining to watershed protection, wetlands, water body protection, topographical slope protection, environmental surveys, environmental protection plans, conservation development, rural development, visual impact, and agricultural resource protection easements."
- Town of Flower Mound Engineering Services Design Criteria and Construction Standards manual, which provides a list of potential BMPs for watershed protection.
- As a part of routine Code Enforcement inspections, the Town's Code Enforcement personnel visually inspect private facilities within the Town. If the Town personnel discover malfunctioning or improperly maintained stormwater facilities the owner of the property will receive a notice detailing the violation and the Town will ensure that the issues are resolved.

Selected BMPs for Post-Construction Stormwater Management for New Developments and Redevelopment

4.1 Comprehensive Stormwater Ordinance

The Town enforces the existing Stormwater Ordinance by requiring all new residential and commercial developments to utilize BMPs to ensure proper long-term operation and maintenance of structures and activities to protect stormwater quality.

The Town will document and maintain records of enforcement of the ordinance utilizing our TRAKiT database system. Reports referencing all records of enforcement will be made to evaluate effectiveness and efficiency.

Measurable Goals

The measurable goal for this BMP is to enforce all provisions of the ordinance. Cases created resulting from possible violations of the Stormwater Ordinance will be documented in our TRAKiT database system and included in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Post-Construction Controls for New Development and Redevelopment	Comprehensive Stormwater Ordinance	Enforce all provisions of the Stormwater ordinance and document any violations and/or enforcement measures.	December 2020-2024

Responsible Division(s)

The Environmental Services, Public Works, Engineering Services, and Building Inspections Divisions are responsible for implementing this BMP to meet Measurable Goal 4.1.

4.2 Stormwater Structural Control Program

The Town of Flower Mound currently integrate inspections of post-construction stormwater quality controls into existing inspections conducted by Town staff. Town staff will require private developments to maintain and/or repair their stormwater control measures, when necessary. Town staff is responsible for inspection and maintenance of municipally owned stormwater control measures.

The Town of Flower Mound will create an inventory of public and private stormwater ponds utilized in developments throughout the Town for the purpose of post-construction stormwater management. The Town will then create a map layer showing the locations and attributes of all of the stormwater ponds throughout the Town.

Measurable Goals

The measurable goal for implementation of this BMP is to create an inventory of all of the stormwater ponds throughout the Town and create a map layer showing the locations and attributes of these ponds

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Post-Construction Controls for New Development and Redevelopment	Evaluate and Enforce the Stormwater Inspections Program	Create an inventory of all stormwater ponds in the Town	December 2021
		Create a map layer showing locations and attributes of the stormwater ponds in the Town	December 2022

		Coordinate with other departments to develop a specific inspection/maintenance program for stormwater ponds	December 2024
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Responsible Division(s)

The Environmental Services, Public Works, and GIS Departments are responsible for implementing this BMP to meet measurable goal 4.3.

4.3 Engineering Design Standards

The Town of Flower Mound has developed design criteria and constructions standards documents which address drainage at new developments and redevelopments throughout the Town. The Engineering Services Division reviews all site plans as part of the Town's development process to ensure that appropriate controls are included in all site development. An Environmental Services or Public Works Division representative attends preconstruction meetings and gathers information about construction and post-construction BMPs.

Measurable Goals

The Environmental Services and Public Works Division will work with the Engineering Services Division to ensure that the proper BMPs are put in place at all developments to ensure that stormwater quality throughout the Town is not negatively impacted. The Town will measure this goal by documenting the number of projects reviewed for post-construction control measures.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Post-Construction Controls for New Development and Redevelopment	Engineering Design Standards	Review engineering plans for all new development and redevelopment to ensure that they are in compliance with the Town's design standards for structural stormwater controls	December 2020-2024

Responsible Division(s)

The Environmental Services, Public Works, Building Inspections and Engineering Services Divisions are responsible for implementing this BMP to meet measurable goal 4.3.

5. Pollution Prevention/Good Housekeeping for Municipal Operations

Current Programs

Currently the Town of Flower Mound's individual divisions ensure that applicable pollution prevention controls are in place and effectively maintained. The Environmental Services Division provides technical services to other divisions, as needed. Current pollution prevention/good housekeeping programs include:

- Fleet vehicle maintenance/washing
- Parking lot and street cleaning
- Storm drain system cleaning/maintenance
- Water materials management
- Road salt/sand application and storage practices
- Used oil recycling
- Best management practices
- Roadway and bridge maintenance policies
- Park maintenance provisions

Selected BMPs for Pollution Prevention/Good Housekeeping for Municipal Operations

5.1 Facility Specific Standard Operating Procedures (SOPs)

The Town of Flower Mound will maintain internal standard operating procedures (SOPs) for each Town facility, which will identify potential stormwater quality impairments resulting from municipal operations and activities. The internal SOPs will function similar to an Environmental Management System and will provide structural and non-structural pollution prevention options through a series of best management practices that are specific to each Town facility.

Measurable Goals

The measurable goal for implementation of the SOPs will be to review 50% of SOPs for designated Town facilities annually. Any necessary updates will be made to the SOPs and documented in subsequent annual reports.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Pollution Prevention/Good Housekeeping	Facility Specific Standard Operating Procedures	Review 50% of existing SOP(s) annually.	December 2020-2024

Responsible Division(s)

All applicable divisions are responsible for implementing the SOP program to meet Measurable Goal 5.1.

5.2 MS4 Facility and Stormwater Controls Inventory

The Town of Flower Mound will maintain an inventory of facilities and stormwater controls that it owns and operates within the regulated area of the MS4. If feasible, the inventory may include all applicable permit numbers, registration numbers, and authorizations for each facility or controls.

Measurable Goals

The measurable goal for this BMP will be to review the inventory of facilities and stormwater controls annually and update the Facility map and inventory as necessary. Details of the map and updates will be provided in the annual reports.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Pollution Prevention/Good Housekeeping	MS4 Facility and Stormwater Controls Inventory	Review the Facility Inventory and Facility Map annually	December 2020-2024

Responsible Division(s)

All applicable divisions are responsible for implementing and maintaining the Town's inventory of facilities and stormwater controls to meet Measurable Goal 5.2.

5.3 MS4 Facility Assessment

In the previous permit term, the Town of Flower Mound developed a MS4 Facility and Stormwater Controls map that identified areas of municipal operations that may be contributing to stormwater runoff to the MS4. This permit term, the Town will use the map to identify high priority areas by establishing a facility inspection program.

Measurable Goals

The measurable goal for this BMP will be to collect the necessary data and begin to develop the framework and a checklist for facility inspection for permit year one. In permit year two, the goal will be to finalize and complete the facility inspection checklist. Permit years three through five will be used to conduct facility inspections and identify high priority areas within MS4 facility.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Pollution Prevention/Good Housekeeping	MS4 Facility Assessment	Develop a plan and checklist for facility inspections	December 2020
		Finalize and complete the facility inspections checklist	December 2021
		Conduct facility inspections and use the result to identify high priority areas.	December 2022-2024

Responsible Division(s)

The Environmental Services, Public Works, Engineering and GIS divisions are responsible for developing and maintaining this BMP to meet Measurable Goal 5.3.

5.4 MS4 Storm Sewer System Inspection and Maintenance Program

As previously mentioned, The Town of Flower Mound maintains a stormwater controls inventory. The Town inspects and maintains the controls that are part of the municipally owned storm sewer system throughout the extent of the Town's MS4.

Measurable Goals

The measurable goal for this BMP is to inspect at least 100 stormwater controls annually. This program will help identify controls which are in need of maintenance in order to reduce to the maximum extent practicable the collection of pollutants in catch basins and other surface drainage structures. During the course of the inspection program any areas where illegal dumping is observed will be added to a list of potential problem areas.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Pollution Prevention/Good Housekeeping	MS4 Storm Sewer System Inspection and Maintenance Program	Inspect at least 100 stormwater controls annually	December 2020-2024

Responsible Division(s)

The Public Works Division are responsible for developing and maintaining this BMP to meet Measurable Goal 5.3.

5.5 MS4 Operations and Maintenance Training

The Town of Flower Mound has developed a training program for all employees responsible for municipal operations that potentially pose an impact to stormwater quality, including discharges into the MS4. The training program includes training materials directed at preventing and reducing stormwater pollution from municipal operations. A list of training completed by Town staff will be provided in the annual report.

The O&M Program will contain at a minimum the following procedures:

- Evaluation of potential stormwater impacts from O&M activities
- Identification of pollutants of concern that may be discharged from O&M activities
- Development and implantation of pollution prevention measures that will reduce discharge of pollutants from O&M activities
- Development of a list of potential problem areas for increased inspection frequency

Measurable Goals

The measurable goal for this BMP will be to conduct annual training for all operations and maintenance departments. All designated employees will undergo annual training throughout the permit term. The total number of employees trained per year will be documented and provided in the annual reports.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Pollution Prevention/ Good Housekeeping	MS4 Operations and Maintenance Training	Conduct Operations and Maintenance Program training annually.	December 2020-2024

Responsible Division(s)

All applicable divisions are responsible for implementing the training program to meet Measurable Goal 5.4.

5.6 Street Cleaning Program

The Town of Flower Mound currently accomplishes street cleaning through the implementation of an annual street sweeping agreement which consists of periodic sweeping of previously identified streets within the town limits. Per the street sweeping services agreement, it is the responsibility of the contractor to transport and properly dispose of all sweeping in accordance with local, state, and federal requirements. The Town prohibits storage or disposal of sweeping at temporary storage sites. The contractor is required to notify Town staff regarding which disposal site(s) are used.

Measurable Goals

The measurable goal for this BMP is to conduct at least two (2) street sweeping events per year in compliance with the Town's Street Cleaning Plan.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Pollution Prevention/ Good Housekeeping	Street Cleaning Plan	Conduct two (2) street sweeping events annually	December 2020-2024

Responsible Division(s)

All applicable divisions are responsible for implementing the training program to meet Measurable Goal 5.6.

7. Authorization for Municipal Construction Activities

The development of this MCM for construction activities, where the small MS4 is the site operator, is optional and provides an alternative to the MS4 operator seeking coverage under TPDES CGP, TXR150000 for each construction activity. Permittees that choose to develop this measure will be authorized to discharge stormwater and certain non-stormwater from construction activities where the MS4 operator meets the definition of a construction site operator in Part I of this general permit.

When developing this measure, permittees are required to meet all requirements of, and be consistent with, applicable effluent limitation guidelines for the Construction and Development industry (40 CFR Part 450), TPDES CGP TXR150000, and Part III.B.3 of this permit.

Utilization of this MCM does not preclude a small MS4 from obtaining coverage under the TPDES CGP, TXR150000, or under an individual TPDES permit. This MCM is only available for projects where the small MS4 is a construction site operator or owner, and the MCM does not provide any authorization for other construction site operators at a municipal project.

Controls required under this MCM must be implemented prior to discharge from a municipal construction site into surface water in the state.

The Town of Flower Mound will be incorporating this optional MCM into its SWMP starting this permit term.

Current Programs

The overall goal of the Municipal Construction Activities program for the Town of Flower Mound is to reduce water pollution from municipal construction projects by utilizing proper erosion and sediment controls, reviewing erosion control plans, and developing contractual controls for work performed by outside parties. The Town requires all construction projects, including Town facility and capital improvement projects, to submit an erosion control plan for review by Town staff. The Town plans to implement MCM 7 for all municipal construction activities throughout the Town.

Selected BMPs for Pollution Prevention/Good Housekeeping for Municipal Operations

7.1 Erosion Control Plan Review

Town staff requires erosion control plans to be submitted for all capital improvement and other Town construction projects. These plans are reviewed by staff knowledgeable about erosion and sediment control devices. Site topography, storm sewer system layout, adjacent open water bodies, and other pertinent site information is taken into consideration in the review process. The erosion control plan generally becomes the site map used by outside parties in the SWPPP. It is the responsibility of the project manager to make the plans available for review. The Town only reviews the plans as submitted by the Town's contractor for the project. It is the contractor's responsibility to prepare the plans.

Measurable Goals

The Town will review all erosion control plans for municipal construction activities and will include the number of plans reviewed in the annual report.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Municipal Construction Activities	Erosion Control Plan Review	Review all erosion control plans for municipal construction activities	December 2020-2024

Responsible Division(s)

The Public Works and Engineering Services divisions are responsible for implementing the program to meet Measurable Goal 7.1.

7.2 Municipal Construction Site Inspections

Town staff will inspect stormwater BMPs utilized at municipal construction projects

Measurable Goals

The Town will inspect all municipal construct projects and report the number of inspections performed at municipal construction activities.

Schedule

<i>PROGRAM</i>	<i>BMP</i>	<i>ACTIVITY</i>	<i>DATE DUE</i>
Municipal Construction Activities	Municipal Construction Site Inspections	Conduct stormwater inspections at all municipal construction activities	December 2020-2024

Responsible Division(s)

The Environmental Services, Public Works, and Engineering Services divisions are responsible for developing and maintaining the program to meet Measurable Goal 7.2.

7.3 Stormwater Pollution Prevention Plan Review

Town staff requires SWPPPs to be developed for all municipal construction activities that disturb one acre of land area or more. Prior to construction projects beginning, the SWPPP is reviewed for completeness by Town staff, and comments may be made to address any identified deficiencies. After project approval, SWPPPs may be reviewed by Town staff to ensure that they have been updated as needed and site conditions are reflected appropriately. Generally, the Town is not the operator with day to day operational control of municipal construction activities, and certification statements to that effect are included in the SWPPP which is signed and dated by representatives for both the Town and the Contractor. The Town relies heavily upon its selected contractor to perform inspections and update the SWPPP. Signed copies of the Contractor's NOI, and any other evidence of State authorization for the Contractor for the appropriate project, will be included with the SWPPP for Town review. Approval of the SWPPP is required prior to start of construction.

Measurable Goals

The Town will review all SWPPPs for municipal construction activities and document the number of approved SWPPPs for each year in the annual report.

Schedule

PROGRAM	BMP	ACTIVITY	DATE DUE
Municipal Construction Activities	Stormwater Pollution Prevention Plan Review	Review all SWPPPs for municipal construction activities	December 2020-2024

Responsible Division(s)

The Environmental Services, Public Works, and Engineering Services Divisions are responsible for implementing the program to meet Measurable Goal 7.3.

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PART III IMPAIRED WATER BODIES AND TOTAL MAXIMUM DAILY LOAD (TMDL) REQUIREMENTS

Impaired Water Body Mitigation Requirements

The Town of Flower Mound directly discharges into an impaired segment known as 0826 – Grapevine Lake. The Pollutant of Concern (POC) for the impaired segment is identified in the *2014 Texas Integrated Report Index of Water Quality Impairments* as pH. The pH level for this segment has been consistently high. The Town of Flower Mound investigated the impaired water body segment during the previous permit term to determine what, if any, contribution the Town was adding to the segment and it does not appear that the Town is contributing to the impairment. If at any point during the current permit term it is determined that the Town is a source of the POC, appropriate BMPs will be evaluated and implemented.

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Appendix A

TPDES General Permit No. TXR040000

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Appendix B

Annual Reports

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ENVIRONMENTAL CONSERVATION COMMISSION AGENDA J.2. WORK SESSION ITEM

DATE: May 7, 2024
FROM: Matthew Woods, Director of Environmental Services
ITEM: **Conduct a review of the Environmental Conservation Commission 2024-2025 initiatives and objectives.**

BACKGROUND: This work session item provides the Environmental Conservation Commission (ECC) an opportunity to review the established objectives and initiatives for 2024-2025 and discuss which items to present to Town Council at the May 16, 2024, joint work session. The ECC may also provide a brief annual review of the Commission's 2023-2024 accomplishments to Town Council at the May 16 work session to meet the annual reporting objective. The 2024-2025 Sustainability Initiatives are attached.

BOARD REVIEW/CITIZEN FEEDBACK: N/A

ALTERNATIVES: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. ECC Sustainability Initiatives 2024-2025

DRAFT MOTION: This item is for discussion purposes.

ECC Sustainability Initiatives 2024/2025

MISSION STATEMENT: To promote responsible environmental stewardship by adopting policies and procedures that will enhance our quality of life and benefit our future communities while preserving our heritage.

Focus	(ID)	Action Items (Initiatives)	Performance Measure
Water Conservation and Stormwater Protection	24-2	Promote the use of native and drought tolerant landscaping	1. Native Plant Giveaways for Residents 2. Additional native plantings on Town Property - Help identify additional locations for native plantings 3. Encourage LISD to use native plants on FM campuses 5. Continue education and outreach to community on benefits of native plants
		Community outreach and Stream Team	On-going
		Water Conservation and Stormwater education through Utility Bill	On-going
		Drought Tolerant landscaping practices at Town Facilities	On-going
Energy and Emissions		Energy Audit/ increase energy efficiency of Town facilities	
		GHG inventory	
		Include green building principles for new Town projects	
Urban Forestry and Natural Environment	24-1	Develop and implement plan for increasing tree canopy	1. Tree Giveaways for Residents 2. Additional Tree Plantings on Town Property - Help identify additional locations for tree plantings (Strategic Initiatives) 3. Encourage LISD to add additional trees to FM campuses 5. Continue education and outreach to community on benefits of trees (especially natives)
		Development and Certification of Town Arboretum	On-going
		Community outreach on Open Spaces and tree health education	On-going
		Acorns to Oaks Growing Program	On-going
Waste Reduction and Recycling	24-3	Develop and make recommendation for Multi-Family recycling	
	22-1	Develop and make recommendation for Green Waste recycling	On-going
	22-2	Promote recycling at Town Facilities	On-going
		Create 'Green' purchasing policy for Town entities	
		Promote food waste reduction and the use of composting	
Outreach and Education	22-3	Promote Wildlife Habitat Program	On-going
		Environmental Education Program	On-going
		Environmental Outreach Events	On-going
		Environmental Services Video Series	On-going