TARRANT COUNTY Unincorporated Urbanized Areas

Draft

TPDES General Permit # TXR040000 2019 – 2024



Stormwater Management Program 07/02/2019

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Note:

Detailed information about the Texas Commission on Environmental Quality (TCEQ) storm water permit rule, executive decision and fact sheets are available at the TCEQ website, www.tceq.texas.gov, and at Tarrant County Transportation Services and Public Health Departments Offices.

Part I – Overview and Definitions

Storm Water Rule Overview

The Texas Commission on Environmental Quality (TCEQ) continues to be authorized by EPA to issue and enforce the Texas Pollutant Discharge Elimination System (TPDES) Phase 1 and 2 storm water permits, in lieu of federal NPDES permits. Tarrant County was issued Permit #TXR040052. Effective 01/24/2019, TCEQ Commissioners approved the TPDES General Permit to authorize discharge of storm water from regulated Phase 2 MS4s. Permittees must submit applications for coverage to TCEQ before 7/23/2019. The application must include a Notice of Intent for coverage (NOI) and a Storm Water Management Program (SWMP). The NOI is a document that provides TCEQ with an official notification to seek permit coverage and identifies legally responsible parties for permit enforcement. The SWMP describes what actions are to be implemented by the permittee to address the required elements of a storm water program. The SWMP describes in detail which Best Management Practices (BMPs) will be implemented to meet permit requirements. The permit term covers 5 years (01/24/2019 – 01/24/2024). The permit will be renewed at 5 year intervals, which will likely require significant changes to the SWMP for future permit approvals.

Definitions:

<u>Best Management Practices (BMPs)</u>-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, waste disposal, or drainage from raw material storage areas.

<u>Classified Segment</u>- 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. <u>Clean Water Act (CWA)</u>-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. <u>Conveyance</u>- Curbs, gutters, man-made channels and ditches, drains, pipes, and other constructed features designed or used for flood control or to otherwise transport storm water runoff.

<u>Discharge</u>- When used without a qualifier, refers to the discharge of storm water runoff or certain non-storm water discharges as allowed under the authorization of this general permit.

<u>Hyper-chlorinated Water-</u> Water resulting from hyper chlorination of waterlines or vessels, with chlorine concentration greater than 10 milligrams per liter (mg/l). <u>Illicit Connection-</u> Any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

<u>Illicit Discharge</u>- Any discharge to a municipal separate storm sewer that is not composed entirely of storm water except discharges pursuant to this general permit or a separate authorization and discharges resulting from emergency firefighting activities.

<u>Impaired Water</u>-A surface water body that is identified as impaired on the latest approved CWA 303(d) list or waters with an EPA approved or established TMDL that are found on

the latest EPA approved *Texas Integrated Report of Surface Water Quality of CWA sections 305(b) and 303(d)* which lists the category 4 and 5 waterbodies. <u>Implementation Plan</u> (I-Plan)-A detailed plan of action that describes the measures or activities necessary to achieve the pollutant reductions identified in the total maximum daily load (TMDL).

<u>Maximum Extent Practicable (MEP)</u>-The technology-based discharge standard for municipal separate storm sewer system (MS4s) 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.

<u>MS4 Operator</u>- For the purpose of this permit, the public entity or 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, district, association, or other public body (created pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, 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 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; and (e) Which was not previously authorized under a NPDES or TPDES individual permit as a medium or large MS4, as defined at 40 CFR §\$ 122.26(b)(4) and (b)(7).

Non-Traditional Small MS4-A small MS4 that often cannot pass ordinances and may not have the enforcement authority like a traditional small MS4 would have to enforce the stormwater management program. Examples of non-traditional small MS4's include counties, transportation authorities (including the Texas Department of Transportation), municipal utility districts, drainage districts, military bases, prisons, and universities. Outfall- A point source at the point where a small MS4 discharges to waters of the U.S. and does not include open conveyances connecting two municipal separate storm sewer system, 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. For the purpose of this permit, sheet flow leaving a linear transportation system without channelization is not considered an outfall. Point sources such as curb cuts; traffic or right of way barriers with drainage slots that drain into open culverts, open swales or an adjacent property, or otherwise not actually discharging into waters of the U.S. are not considered an outfall. 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 U.S., 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, storm water, 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: (b) Designed or used for collecting or conveying stormwater; (c) Which is not a combined sewer; and (d) Which is not part of a (POTW) as defined in 40 CFR §122.2; and (e) Which was not previously regulated under a National Pollutant Discharge Elimination System (NPDES) or Texas Pollution Discharge Elimination System (TPDES) individual permit as a medium or large municipal separate storm sewer system, as defined in 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 discreet areas, such as individual buildings. For the purpose of this permit, a very discreet system also includes storm drains associated with certain municipal office 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 Management Program (SWMP)-a comprehensive program to manage the quality of discharges from the municipal separate storm sewer system.

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 (MHWM) out 10.36miles 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.

Urbanized Area (UA). An area of high population density that may include multiple

<u>Urbanized Area (UA)</u>- An area of high population density that may include multiple small MS4s as defined and used by the U.S. Census Bureau in the 2000 and the 2010 Decennial census.

Waters of the U.S.-(According to 40 CFR§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, sandflats, 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. Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA are not waters of the U.S. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the U.S. (such as disposal area in wetlands) nor resulted from the impoundment of waters of the U.S. Waters of the U.S. do not include prior converted cropland. Not withstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the CWA, the final authority regarding CWA jurisdiction remains with EPA.

Part II - Permit Applicability and Coverage

Regulated Portion of Small MS4

The TPDES Permit requirements apply only to the portions of unincorporated Tarrant County that are identified as urbanized areas. There are approximately 30 non-contiguous urbanized areas in unincorporated Tarrant County. These areas are identified based upon data in the 2000 and 2010 U.S. Census map. The map may be viewed at https://www2.census.gov/geo/maps/dc10map/UAUC_RefMap/ua/ua22042_dallas—fort worth--arlington_tx/. Several maps are available.

The Tarrant County SWMP addresses permit required BMPs only in the unincorporated urbanized area portions of the county: however, certain elements of the SWMP may be voluntarily implemented by the permittee within the larger unincorporated area. One example is *Public Education and Outreach*, which may be implemented on a more regional basis, such as social media or websites associated with the North Central Texas Council of Governments.

Categories of Regulated Small MS4s

Texas is somewhat unique in the U.S. regarding the restrictions it places upon counties. Basically, the Texas Constitution and State statutes do not grant Texas counties the ability to create and enforce ordinances, such as the ones that Texas cities (Home Rule) are allowed to create in order to meet the TPDES permit requirements. To address this restriction, TCEQ rules contain text stating "to the extent allowable under state and local law". This statement is cited several times in Part III, SWMP development and implementation, of the general permit. Tarrant County will address the various elements in the General Permit SWMP requirements to the extent allowable under current state and local law.

This permit defines MS4 Operators by the following categories, or levels, based on the population served within the 2010 UA. Tarrant County is a **Level 2 Operator** based on the following definition: "Operators of a traditional small MS4's that serve a population of at least10,000 but less than 40,000 within the UA. This category also includes all non-traditional small MS4s such as counties, drainage districts, transportation entities, military bases, universities, colleges, correctional institutions, municipal utility districts and other special districts regardless of population served within the UA, unless the non-traditional MS4 can demonstrate that it meets the criteria for a waiver from permit coverage based on the population served."

Allowable Non-Stormwater Discharges

Tarrant County accepts the TCEQ list of allowable non-storm water discharges in the MS4. These non-storm water sources may be discharged from the MS4 and are not required to be

addressed in the MS4's Illicit Discharge and Detection MCM or other MCMs, provided they have not been determined by the MS4 to be substantial sources of pollutants to the MS4. A list of the allowable discharges is contained in the TCEQ General Permit, TXR040000; see Part II, Section C, and Page 16. Tarrant County will allow charitable car wash events to temporarily discharge water mixed with detergents if wash water is discharged into a grassy area and the wash water soaks into the ground prior to the next runoff producing rain storm.

Impaired Water Bodies and Total Maximum Daily Load (TMDL) Requirements

Discharges to Water Quality Impaired Water Bodies with an Approved TMDL

Tarrant County has unincorporated urbanized areas in the watershed of the approved TMDL drainage area. The Tarrant County Stormwater staff will implement a NCTCOG and region wide "Implementation Plan for the Seventeen Total Maximum Daily Loads for Bacteria in the Greater Trinity River Region" covering the Upper Trinity River, Cottonwood Branch and Grapevine Creek and Lower West Fork Trinity River. Tarrant County Storm Water Staff has determined that the largest portion of the Unincorporated Urbanized Area in the above mentioned I-Plan is located in the Sub Watershed 0841M. Based on the benchmark information from the I-Plan, the Waste Load Allocation (WLA) for stormwater is 126 MPN/mL. The I-Plan describes the steps watershed stakeholders and the TCEQ will take toward achieving the pollutant reductions identified in the TMDL's technical reports and follow the outline for implementation activities. Tarrant County's Stormwater staff plays an active role as Chairperson of the Onsite Sewage Facility subcommittee and a committee member of the TMDL Coordinating Council.

In reviewing the I-Plan, Tarrant County's Stormwater staff has determined Tarrant County has no direct discharge into any impaired water bodies within the approved TMDL watershed. Tarrant County will implement some (such as, onsite sewage facilities, illicit discharges and dumping and residential education) of those implementation strategies and BMP's listed in the approved I-Plan and from the small MS4 General Permit Part II, Section D 4(a)(5) "Impairment for Bacteria." These implementation strategies and BMP's for bacteria reduction will be listed as BMP's in the body of our SWMP and highlighted by (TMDL).

Tarrant County will assess progress by using program implementation indicators such as:

- (1) Number of sources identified or eliminated-See MCM 2(e) and 2(f)
- (2) Decrease in number of illegal dumping-See MCM 2(f)
- (3) Increase in illegal dumping reporting-See MCM 2(c) and 2(f)
- (4) Number of educational opportunities conducted-See MCM 1(g), 1(i) and 1(m)
- (5) Reductions in sanitary sewer flows (SSOs)-See MCM 2(e)

Discharges Directly to Water Quality Impaired Water Bodies without an Approved TMDL

Tarrant County staff has determined there are direct discharges from our MS4 system to impaired water bodies without an approved TMDL. Based on information from the Texas 303(d) list on May 9, 2013, Tarrant County has two locations (Burleson Retta Road and Village Creek and Shelby Road at Village Creek) where we direct discharge into Segment 828A Village Creek (unclassified water body). The pollutant of concern is bacteria, which is listed as active from Lake Arlington to the headwaters from Village Creek. These implementation strategies for bacteria reduction will be listed in the above paragraphs.

Part III – STORM WATER MANAGEMENT PLAN (SWMP)

Overview of Tarrant County's SWMP

To the extent allowable under State and local law, Tarrant County's SWMP was developed, and will be implemented, according to requirements of Part III of TPDES General Permit TXR040000, for discharges of stormwater to surface water in the state. This SWMP was developed to prevent pollution in storm drainage systems to the maximum extent practicable, with control measures being phased in during the 5year permit term. Since Tarrant County is a Level 2 Operator of Regulated Small MS4's, it's SWMP will only address 5 minimum control measures (MCMs) as required by TCEQ rules. MCMs will be implemented in urbanized areas of unincorporated Tarrant County and may be voluntarily implemented in other unincorporated areas of Tarrant County if warranted by special conditions such as participation in regional initiatives. MCMs will be evaluated based upon the accomplishment of activities (BMPs) listed under each MCM. Tarrant County storm water staff from two departments will monitor MCM activities and are identified in each section.

Legal Authority (Traditional Small MS4s vs. Non-Traditional MS4s)

As a non-traditional MS4, Tarrant County is not authorized by the State Constitution or State Statutes to enact the ordinances and implement all of the regulatory requirements that Phase 2 (small MS4) requires. Tarrant County addresses and explains it's authority under..."to the extent allowable under state and local law" in the appropriate Minimum Control Measure sections of the Storm Water Management Plan. Tarrant County has determined it is not feasible for the County to enter into inter-local agreements with neighboring MS4's to enforce our Stormwater Program. Tarrant County shall notify adjacent MS4 operators with enforcement authority or TCEQ's Field Operations Support Division as needed to report discharges or incidents that the County cannot itself enforce.

<u>Ditch Drainage System (Traditional Small MS4s vs. Non-Traditional MS4s)</u>

Unlike cities, Tarrant County's storm drainage system is not a traditional underground drainage system (i.e. curb inlets, underground pipes and outfall discharges from pipes). Instead, Tarrant County's storm drainage system is mostly comprised of unlined (pervious) above ground ditches. Benefits and challenges associated with this type of system will be addressed in the appropriate MCM sections.

<u>Large Area and Long Distances between Non-Contiguous Urbanized Areas</u> (Traditional Small MS4s vs. Non-Traditional MS4s)

Unlike cities, Tarrant County has approximately 30 small non-contiguous Urbanized Areas scattered across a county wide area of 863 square miles. Long travel distances, often exceeding those found in large MS4 cities will be required by small MS4 County staff to implement daily activities associated with this program. This extra challenge is another element to consider when comparing the SWMPs of counties to cities in the area.

<u>Annexation and De-annexation (Traditional Small MS4s vs. Non-Traditional MS4s)</u>

Unlike cities, counties will be losing land areas when annexation occurs. Counties will not be adding new areas of responsibilities and will not have to provide services to the annexed land.

Tarrant County will only add urbanized areas when population densities increase in existing unincorporated county, as designated by the U.S. Census Bureau on a ten-year cycle.

Participants in developing/implementing Tarrant County's SWMP

Tarrant County's SWMP was developed by County staff with over 20 years of storm water experience. Responsibilities for implementing the SWMP are divided between two County departments: Transportation Services and Public Health. Each MCM contains the name, department, mailing address, phone number and email of staff or manager primarily responsible for that specific MCM.

Rationale Statement for Tarrant County's SWMP

During the development of Tarrant County's SWMP, the County staff considered Best Management Practices and the Implementation Plan for Seventeen Total Maximum Daily Loads for Bacteria in the Greater Trinity River Region (TCEQ Approved Regional I-Plan) that would protect water quality, comply with General Permit TXR040000, meet the MEP and ensure program costs that would not create undue hardship on county residents and businesses. Established Phase II Stormwater Programs, along with the Stormwater Programs of the surrounding 7 counties, were reviewed and evaluated. Tarrant County's involvement with NCTCOG and the regional approach with storm water quality BMPs were also reviewed and evaluated. A variety of BMPs for each minimum control measures were considered and compared. BMPs were ultimately selected based on an evaluation of overall effectiveness, affordability and suitability in the urbanized unincorporated Tarrant County MS4. The program will allow continual adjustment and refinement through County implementation, experience and feedback from various sectors of the urbanized unincorporated population.

Part III: MCM 1 – Public Education Outreach and Involvement

Tarrant County will inform the public about water quality issues regarding storm water runoff and illicit discharges by providing informational materials in multiple formats and media. Tarrant County, Tarrant County/ Texas AgriLife Extension Service, North Central Texas Council of Governments (NCTCOG) and other resources may be used to develop and distribute public education and outreach material. If practical, Tarrant County will work with NCTCOG and other local governments to develop suitable community materials for website posting and/or distribution at Tarrant County Sub-Courthouses.

The community to be addressed will consist of residents, public service employees, businesses, commercial/industrial facilities and construction site personnel in unincorporated/urbanized areas of Tarrant County. Due to the lack of a centralized location to attract visitors within the approximately 30 non-contiguous urbanized areas in unincorporated Tarrant County, visitors will not be a targeted group. Also, these areas are mostly residential in nature and not intended to attract visitors.

1(a) - Texas SmartScape Website

Tarrant County staff continues to work with NCTCOG and others to monitor the interactive regional internet version of the *Texas SmartScape*, which is available at www.txsmartscape.com and is currently maintained by NCTCOG. The website promotes both storm water education and water conservation.

Permit Year	ВМР	Measurable Goals	Deadline/Frequency
One	Review the number of website visits	Review one report from NCTCOG	December 31, 2019
Two	Review the number of website visits	Review one report from NCTCOG	December 31, 2020
Three	Review the number of website visits	Review one report from NCTCOG	December 31, 2021
Four	Review the number of website visits	Review one report from NCTCOG	December 31, 2022
Five	Review the number of website visits	Review one report from NCTCOG	December 31, 2023

1(b) - <u>Texas SmartScape Bookmarks</u>

Bookmarks to publicize the *Texas SmartScape* website will be distributed by Tarrant County MS4 staff. Tarrant County will distribute by mail, lobby table and other sources.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Distribute Bookmarks to	Distribute 75	December 31, 2019
	Citizens and Employees	Bookmarks	
Two	Distribute Bookmarks to	Distribute 75	December 31, 2020
	Citizens and Employees	Bookmarks	
Three	Distribute Bookmarks to	Distribute 75	December 31, 2021
	Citizens and Employees	Bookmarks	
Four	Distribute Bookmarks to	Distribute 75	December 31, 2022
	Citizens and Employees	Bookmarks	
Five	Distribute Bookmarks to	Distribute 75	December 31, 2023
	Citizens and Employees	Bookmarks	

1(c) - March is Texas SmartScape Month

This is a coordinated annual activity where local governments promote less pesticide and fertilizer use associated with landscapes. This is a NCTCOG RDI (Regionally Developed Initiative) and Tarrant County will participate in this activity.

Permit Year	ВМР	Measurable Goals	Deadline/Frequency
One	Promote "March is SmartScape	1.Held one meeting with Public	April 30, 2019
	Month" through social media and	Health PIO to arrange future	•
	setup an information table in	social media postings 2. Setup	
	lobby of Public	one information table in	
		PublicHealth Lobby	
Two	Promote "March is SmartScape	1.Send out one Social Media	March 31, 2020
	Month" through social media and	Message through Public Health's	·
	setup an information table in	PIO 2. Set up one SmartScape	
	lobby of Public	table in Public Health Lobby	
Three	Promote "March is SmartScape	1.Send out one Social Media	March 31, 2021
	Month" through social media and	Message through Public Health's	,
	setup an information table in	PIO 2. Set up one SmartScape	
	lobby of Public	table in Public Health Lobby	
Four	Promote "March is SmartScape	1.Send out one Social Media	March 31, 2022
	Month" through social media and	Message through Public Health's	,
	setup an information table in	PIO 2. Set up one SmartScape	
	lobby of Public	table in Public Health Lobby	
Five	Promote "March is SmartScape	1.Send out one Social Media	March 31, 2023
	Month" through social media and	Message through Public Health's	,
	setup an information table in	PIO 2. Set up one SmartScape	
	lobby of Public	table in Public Health Lobby	

1(d) – Distribution of Educational Materials

Tarrant County will distribute stormwater related materials, such as information sheets, brochures, bookmarks, etc. These materials may be developed by Tarrant County staff, NCTCOG Storm Water Education Taskforce, EPA, TCEQ, or any other source, current or future. Some of these materials will address illicit discharges, construction, NOI submittals and other informational materials required by the permit.

Permit Year	ВМР	Measurable Goals	Deadline/Frequency
One	Distribute Educational Materials	Distribute 500 items of	December 31, 2019
	to the public and employees	Educational Materials	
Two	Distribute Educational Materials	Distribute 500 items of	December 31, 2020
	to the public and employees	Educational Materials	,
Three	Distribute Educational Materials	Distribute 500 items of	December 31, 2021
	to the public and employees	Educational Materials	,
Four	Distribute Educational Materials	Distribute 500 items of	December 31, 2022
	to the public and employees	Educational Materials	,
Five	Distribute Educational Materials	Distribute 500 items of	December 31, 2023
	to the public and employees	Educational Materials	

1(e) - Texas AgriLife Extension Service

The Texas AgriLife Extension Service maintains a Texas Watershed Steward educational website. Storm water staff will coordinate with Texas AgriLife Extension Service staff to determine the number of visits to this webpage.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Review the number of	Review one report from	December 31, 2019
	website visits	Texas AgriLife	
Two	Review the number of	Review one report from	December 31, 2020
	website visits	Texas AgriLife	
Three	Review the number of	Review one report from	December 31, 2021
	website visits	Texas AgriLife	
Four	Review the number of	Review one report from	December 31, 2022
	website visits	Texas AgriLife	
Five	Review the number of	Review one report from	December 31, 2023
	website visits	Texas AgriLife	

1(f) - Tarrant County Social Media Posts

Tarrant County will post stormwater related topics through our social media programs targeting citizens, employees and businesses in Tarrant County.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Social media posts	There will be two stormwater	December 31, 2019
		related topics posted through social media	
Two	Social media posts	There will be two stormwater	December 31, 2020
1 WO	Boeiai media posts	related topics posted through	Beccinite 31, 2020
		social media	
Three	Social media posts	There will be two stormwater	December 31, 2021
		related topics posted through social media	
Four	Social media posts	There will be two stormwater	December 31, 2022
1001	Social media posts	related topics posted through	Beccineer 31, 2022
		social media	
Five	Social media posts	There will be two stormwater	December 31, 2023
		related topics posted through social media	
		social illedia	

1(g) - NCTCOG Participation (TMDL)

Participate in the NCTCOG's Storm Water Education Task Force, Regional Storm Water Management Coordinating Council, and TMDL Subcommittee meetings.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Staff will attend	Staff will attend five	December 31, 2019
	NCTCOG stormwater	NCTCOG meetings	
	related meetings		
Two	Staff will attend	Staff will attend five	December 31, 2020
	NCTCOG stormwater	NCTCOG meetings	
	related meetings		
Three	Staff will attend	Staff will attend five	December 31, 2021
	NCTCOG stormwater	NCTCOG meetings	
	related meetings		
Four	Staff will attend	Staff will attend five	December 31, 2022
	NCTCOG stormwater	NCTCOG meetings	
	related meetings		
Five	Staff will attend	Staff will attend five	December 31, 2023
	NCTCOG stormwater	NCTCOG meetings	
	related meetings	_	

1(h) - Transportation Department Website

The Transportation Department Environmental website,

http://www.tarrantcounty.com/en/transportation/environmental/ms4-storm-water-permit.html is where Tarrant County will keep the current Stormwater Management Plan and MS4 Annual Reports. Tarrant County will provide links to the TCEQ, EPA and NCTCOG stormwater websites.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	N/A	N/A	N/A
Two	Prepare 2019 Annual	Upload 2019 Annual	April 30, 2020
	Report for website	Report to website	
Three	Prepare 2020 Annual	Upload 2020 Annual	April 30, 2021
	Report for website	Report to website	
Four	Prepare 2021 Annual	Upload 2021 Annual	April 30, 2022
	Report for website	Report to website	
Five	Prepare 2022 Annual	Upload 2022 Annual	April 30, 2023
	Report for website	Report to website	

1(i) – Public Health Website (TMDL)

The Tarrant County Public Health Environmental website, http://www.tarrantcounty.com/en/public-health/health-protection-and-response/environmental-health-promotion/storm-water.html.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Update Public Health	One E.coli bacteria	December 31, 2019
	website as needed	article will be on	
		website	
Two	Update Public Health	One E.coli bacteria	December 31, 2020
	website as needed	article will be on	
		website	

Three	Update Public Health website as needed	One E.coli bacteria article will be on	December 31, 2021
		website	
Four	Update Public Health website as needed	One E.coli bacteria article will be on website	December 31, 2022
Five	Update Public Health website as needed	One E.coli bacteria article will be on website	December 31, 2023

1(j) – Public Notice Requirements

Tarrant County Commissioner's Court meetings are subject to state/local public notice requirements, which meet TCEQ minimum requirements for public involvement/participation.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Public notice requirements	One SWMP item will be	December 31, 2019
	will be met by Commissioners	brought before	
	Court Meetings	Commissioners Court	
Two	Public notice requirements	One SWMP item will be	December 31, 2020
	will be met by Commissioners	brought before	·
	Court Meetings	Commissioners Court	
Three	Public notice requirements	One SWMP item will be	December 31, 2021
	will be met by Commissioners	brought before	,
	Court Meetings	Commissioners Court	
Four	Public notice requirements	One SWMP item will be	December 31, 2022
	will be met by Commissioners	brought before	ŕ
	Court Meetings	Commissioners Court	
Five	Public notice requirements	One SWMP item will be	December 31, 2023
	will be met by Commissioners	brought before	,
	Court Meetings	Commissioners Court	

1(k) - Post Draft/Current SWMP on Transportation Department Website

After internal review by Tarrant County Stormwater Staff and after submittal to TCEQ, staff will post the draft SWMP on the County's website. After TCEQ approval, staff will post the SWMP on the website.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Post draft/current	Post one draft/current	August 31, 2019
	SWMP to website	SWMP to website	
Two	Post draft/current	Post one draft/current	August 31, 2020
	SWMP to website	SWMP to website	
Three	Confirm current SWMP	Confirm one current	August 31, 2021
	on website	SWMP on website	
Four	Confirm current SWMP	Confirm one current	August 31, 2022
	on website	SWMP on website	
Five	Confirm current SWMP	Confirm one current	August 31, 2023
	on website	SWMP on website	

1(l) - Celebrate Earth Day in September

Tarrant County Public Health staff will set up a Celebrate Earth Day in September information table in the Public Health lobby. The table will have various educational

materials addressing the practice of good stewardship toward the environment, ecosystems and public health in general.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Set up Earth Day information table	Set up one informational table in the Public Health lobby	September 30, 2019
Two	Set up Earth Day information table	Set up one informational table in the Public Health lobby	September 30, 2020
Three	Set up Earth Day information table	Set up one informational table in the Public Health lobby	September 30, 2021
Four	Set up Earth Day information table	Set up one informational table in the Public Health lobby	September 30, 2022
Five	Set up Earth Day information table	Set up one informational table in the Public Health lobby	September 30, 2023

1(m) – E.coli Bacteria Pollutant Reduction Notice on Social Media (TMDL)

Tarrant County Stormwater staff will educate employees and citizens in the reduction and abatement of the targeted bacteria, E.coli, from the Trinity River and its tributaries within the urbanized unincorporated area of Tarrant County.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Social Media Post about	There will be one social	December 31, 2019
	E.coli Reduction	media post.	
Two	Social Media Post about	There will be one social	December 31, 2020
	E.coli Reduction	media post.	
Three	Social Media Post about	There will be one social	December 31, 2021
	E.coli Reduction	media post.	
Four	Social Media Post about	There will be one social	December 31, 2022
	E.coli Reduction	media post.	
Five	Social Media Post about	There will be one social	December 31, 2023
	E.coli Reduction	media post.	

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Part III: MCM 2 – Illicit Discharge Detection and Elimination (IDDE)

To the extent allowable under State law, Tarrant County currently implements an illicit discharge program. Since Texas counties do not have the rule/ordinance making authority that cities have, illicit dischargers that Tarrant County cannot enforce against, after seeking voluntary compliance, will be referred to the TCEQ Region 4 Office in Fort Worth. Malfunctioning on-site sewage facilities, such as septic systems, are subject to County corrective actions and enforcement, as necessary. Tarrant County's allowable non-stormwater discharges have been documented on page 6 - 7 of our SWMP.

Another item that impacts the development of this MCM is the actual structure of the MS4 system. Tarrant County's MS4 is mostly composed of open drainage ditches, as opposed to underground pipe systems and outfalls found in urbanized cities. This means that illicit connections/discharges to underground systems, which are often an important source of illicit discharges for cities, are not as hidden or difficult to locate in open drainage ditch systems found in many counties. Dry weather flows are not as common in ditch systems since they are not lined in concrete and water is absorbed into the ground, while also being exposed to wind and sunlight. Additionally, outfalls are not as commonly found in a ditch system compared to an underground pipe system which discharges into readily identifiable outfalls.

2(a) – MS4 Mapping

Tarrant County will continue to update our MS4 outfall map in the urbanized areas in unincorporated Tarrant County. Staff will locate old and new outfalls contained in those areas that discharge directly into waters of the State, using available resources such as EPA Urbanized Area maps, NCTCOG developed maps, TCEQ website, and 7.5 minute USGS topographic maps. The MS4 map will have the location and names all surface waters receiving discharges from Tarrant County's outfalls.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	N/A	N/A	N/A
Two	Find outfalls in	Prepare one MS4 map	December 31, 2020
	Precinct Two	for Precinct Two	
Three	Find outfalls in	Prepare one MS4 map	December 31, 2021
	Precinct Three	for Precinct Three	
Four	Find outfalls in	Prepare one MS4 map	December 31, 2022
	Precinct One	for Precinct One	
Five	Find outfalls in	Prepare one MS4 map	December 31, 2023
	Precinct Four	for Precinct Four	

2(b) - County Employee Training

The training program will consist of videos and educational materials developed by NCTCOG and other private providers. Stormwater staff will train employees about pollution prevention techniques, illicit discharges, illicit connection, and good housekeeping practices.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	N/A	N/A	N/A
Two	Train Public Health (Environmental Division) and Facilities Management personnel	Perform two class room trainings	December 31, 2020
Three	Train Transportation Department and the four Precinct Yard personnel	Perform five class room trainings	December 31, 2021
Four	Train Public Health (Environmental Division) and Facilities Management personnel	Perform two class room trainings	December 31, 2022
Five	Train Transportation	Perform five class room	December 31, 2023

Department and the four Precinct Yard	trainings	
personnel		

2(c) – <u>Public Reporting: NCTCOG Illegal Dumping Hotline (TMDL)</u>

Tarrant County will continue this current activity with the North Central Texas Council of Governments to offer residents of unincorporated Tarrant County the opportunity to report illegal dumping to the regional *Stop Illegal Dumping Hotline*, 1-888-335-DUMP. This is number is monitored by NCTCOG and calls are referred to local governments.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Determine number	Review one report from	December 31, 2019
	of calls to hotline	NCTCOG	
Two	Determine number	Review one report from	December 31, 2020
	of calls to hotline	NCTCOG	
Three	Determine number	Review one report from	December 31, 2021
	of calls to hotline	NCTCOG	
Four	Determine number	Review one report from	December 31, 2022
	of calls to hotline	NCTCOG	
Five	Determine number	Review one report from	December 31, 2023
	of calls to hotline	NCTCOG	

2(d) – <u>Public Reporting: Citizen Reports and County Staff Surveillance of Illegal Discharges</u>

Citizen and county staff reporting of apparent water pollution in neighborhood drainage ways and creeks is a reasonable means of detecting illicit discharges in unincorporated areas of Tarrant County. In the unincorporated urbanized area, Tarrant County staff will investigate citizen reports and county staff discovered illicit discharges in a timely manner. Since the County's enforcement powers are restricted, TCEQ's Region 4 Field Office will be notified of illicit dischargers that do not comply voluntarily.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Investigate illegal	Respond to 100% of	December 31, 2019
	discharge	illegal discharge	
	complaints	complaints	
Two	Investigate illegal	Respond to 100% of	December 31, 2020
	discharge	illegal discharge	
	complaints	complaints	
Three	Investigate illegal	Respond to 100% of	December 31, 2021
	discharge	illegal discharge	
	complaints	complaints	
Four	Investigate illegal	Respond to 100% of	December 31, 2022
	discharge	illegal discharge	
	complaints	complaints	
Five	Investigate illegal	Respond to 100% of	December 31, 2023
	discharge	illegal discharge	
	complaints	complaints	

2(e) – <u>Source Investigation and Elimination: Onsite Sewage Facility (OSSF)</u> (TMDL)

The Tarrant County Public Health Department, Environmental Health Division staff will maintain records of actions taken regarding OSSF in regard to the Storm Water Program. Tarrant County has authority from the State of Texas under TCEQ to enforce rules regarding the installation and operation of on-site sewerage facilities and public health violations that may contribute to bacteria loading into the waters of the State.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Investigate OSSF complaints; report the number of ongoing investigations and sites brought into compliance	Review one annual OSSF report	December 31, 2019
Two	Investigate OSSF complaints; report the number of ongoing investigations and sites brought into compliance	Review one annual OSSF report	December 31, 2020
Three	Investigate OSSF complaints; report the number of ongoing investigations and sites brought into compliance	Review one annual OSSF report	December 31, 2021
Four	Investigate OSSF complaints; report the number of ongoing investigations and sites brought into compliance	Review one annual OSSF report	December 31, 2022
Five	Investigate OSSF complaints; report the number of ongoing investigations and sites brought into compliance	Review one annual OSSF report	December 31, 2023

2(f) -Source Investigation and Elimination: Illegal Dumping Team (TMDL)

The Tarrant County Sheriff's Department Illegal Dumping Team is a group of deputies who investigate illegal dumping in the county. Stormwater staff will coordinate with the Sheriff's Department team to report annual activities (number of illegal dumping cases, number of cleanups and number of issued citations) that occurred in the county.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Report number of illegal dumping cases, number of cleanups, and number of citations issued	Review 12 monthly reports	December 31, 2019
Two	Report number of illegal dumping cases, number of cleanups, and number of citations issued	Review 12 monthly reports	December 31, 2020
Three	Report number of	Review 12 monthly	December 31, 2021

	illegal dumping cases, number of cleanups, and number of citations issued	reports	
Four	Report number of illegal dumping cases, number of cleanups, and number of citations issued	Review 12 monthly reports	December 31, 2022
Five	Report number of illegal dumping cases, number of cleanups, and number of citations issued	Review 12 monthly reports	December 31, 2023

2(g) – Source Elimination: Household Hazardous Waste

The Tarrant County Transportation Department will continue to partner with the City of Fort Worth to offer residents of unincorporated Tarrant County the opportunity to dispose of household hazardous waste at Fort Worth's Environmental Collection Center.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Send vouchers to	Mail out 20 vouchers to	December 31, 2019
	citizens	use at ECC	
Two	Send vouchers to	Mail out 20 vouchers to	December 31, 2020
	citizens	use at ECC	
Three	Send vouchers to	Mail out 20 vouchers to	December 31, 2021
	citizens	use at ECC	
Four	Send vouchers to	Mail out 20 vouchers to	December 31, 2022
	citizens	use at ECC	
Five	Send vouchers to	Mail out 20 vouchers to	December 31, 2023
	citizens	use at ECC	

2(h) – Source Elimination: General Waste and Recyclables

The Tarrant County Transportation Department will partner with the City of Fort Worth to offer residents of unincorporated Tarrant County the opportunity to deposit general waste and recyclables at Fort Worth's Drop-off Stations.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Create and	One inter-local	December 31, 2019
	approve inter-local	agreement	
	agreement		
Two	Send vouchers to	Mail out 10 vouchers to	December 31, 2020
	citizens	use at Drop-off Stations	
Three	Send vouchers to	Mail out 10 vouchers to	December 31, 2021
	citizens	use at Drop-off Stations	
Four	Send vouchers to	Mail out 10 vouchers to	December 31, 2022
	citizens	use at Drop-off Stations	
Five	Send vouchers to	Mail out 10 vouchers to	December 31, 2023
	citizens	use at Drop-off Stations	

2(i) - MS4 Staff Training

Stormwater staff will attend training on MS4 issues. This training may come from classes, seminars, professional membership meetings or TCEQ workshops.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Stormwater Staff	One training per staff	December 31, 2019
	Training	member	
Two	Stormwater Staff	One training per staff	December 31, 2020
	Training	member	
Three	Stormwater Staff	One training per staff	December 31, 2021
	Training	member	
Four	Stormwater Staff	One training per staff	December 31, 2022
	Training	member	
Five	Stormwater Staff	One training per staff	December 31, 2023
	Training	member	

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Part III: MCM 3 – Construction Site Storm Water Runoff Control

To the extent allowable under State law, the County will continue construction inspections in the urbanized areas of unincorporated Tarrant County. Since Texas counties do not have the rule/ordinance making authority that cities have, the County cannot enforce a program to reduce pollutants in storm water runoff from construction sites. Any required enforcement will be conducted by TCEQ. The County will participate in this MCM by providing general information about the TCEQ requirements to construction site operators, conducting voluntary reactive and proactive inspections and promoting the iSWM Design Manual for Construction developed by NCTCOG.

Tarrant County accepts the TCEQ list of prohibited discharges for construction sites. A list of the prohibited discharges is contained in the TCEQ General Permit, TXR040000; see Part III, Section B 3 (b)(3), Page 41.

3(a) - iSWM Design Manual for Construction

This manual created by the NCTCOG is used to provide guidance to governmental entities, property owners, developers, engineers, and contractors for reducing the impact of stormwater runoff from construction activities on downstream natural resources and properties. The manual establishes the framework and provides the tools to effectively plan, install, maintain erosion and sediment controls, soil stabilization and Best Management Practices (BMPs) for construction site storm water runoff. The Tarrant County Engineer has developed a letter to be sent to prospective land developers in the unincorporated county that STRONGLY recommends all developers and construction site operators use the manual.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Promote the use of	Send out 10 Letters	December 31, 2019
	the iSWM Manual		ŕ
Two	Promote the use of	Send out 10 Letters	December 31, 2020
	the iSWM Manual		,
Three	Promote the use of	Send out 10 Letters	December 31, 2021
	the iSWM Manual		,
Four	Promote the use of	Send out 10 Letters	December 31, 2022
	the iSWM Manual		,
Five	Promote the use of	Send out 10 Letters	December 31, 2023
	the iSWM Manual		,

3(b) - Construction Plan Review Procedures

The County's stormwater team currently reviews projects where Precinct work crews may be involved with construction projects. These projects may be internal county road construction projects or they may be projects that the county performs for local cities. The review by county staff is to ensure all TCEQ Construction General Permit rules and regulations are followed by the county.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Review	Review 100% of the	December 31, 2019
	Construction	projects brought to SW	
	Projects	Staff by County	
		Departments	
Two	Review	Review 100% of the	December 31, 2020
	Construction	projects brought to SW	
	Projects	Staff by County	
		Departments	
Three	Review	Review 100% of the	December 31, 2021
	Construction	projects brought to SW	
	Projects	Staff by County	
		Departments	
Four	Review	Review 100% of the	December 31, 2022
	Construction	projects brought to SW	
	Projects	Staff by County	
		Departments	
Five	Review	Review 100% of the	December 31, 2023
	Construction	projects brought to SW	
	Projects	Staff by County	
		Departments	

3(c) - Construction Site Inspection and Enforcement

The County will conduct voluntary construction site inspections in the urbanized unincorporated areas of Tarrant County. At least 5 sites will be inspected annually in the urbanized area. If there are not 5 sites to review, staff will try to locate additional sites in the unincorporated areas of the county. Site operators will be checked for NOI submittal, the presence of a functional SWPPP, erosion control materials, proper control of construction waste and general compliance with TCEQ requirements. If, after initial inspection and follow-up, there are significant violations which have not been corrected, then the TCEQ will be notified that the County is discontinuing its voluntary inspections at the site. Also, if entrance to a

site or a request to review records is denied, then the County will request that TCEQ perform an inspection at the site.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Conduct	Conduct 5 Inspections	December 31, 2019
	Construction Site		,
	Inspections		
Two	Conduct	Conduct 5 Inspections	December 31, 2020
	Construction Site	-	
	Inspections		
Three	Conduct	Conduct 5 Inspections	December 31, 2021
	Construction Site	•	
	Inspections		
Four	Conduct	Conduct 5 Inspections	December 31, 2022
1 0 01	Construction Site	•	
	Inspections		
Five	Conduct	Conduct 5 Inspections	December 31, 2023
,	Construction Site	•	= :::::::::::::::::::::::::::::::::::::
	Inspections		

3(d) - <u>Citizen Reports and County Staff Surveillance of Stormwater</u> <u>Discharges</u>

Citizen and county staff reporting of apparent stormwater pollution in neighborhood drainage ways and creeks is a reasonable means of detecting stormwater discharges in unincorporated areas of Tarrant County. In the unincorporated urbanized area, Tarrant County staff will investigate citizen reports and county staff discovered stormwater discharges in a timely manner. The response may include a voluntary construction site visit to observe conditions and resolve issues, periodic site drive bys or other response to address the complaint. Since the County's enforcement powers are restricted, TCEQ's Region 4 Field Office will be notified of stormwater dischargers that do not comply voluntarily.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Investigate stormwater discharge complaints	Respond to 100% of stormwater discharge complaints	December 31, 2019
Two	Investigate stormwater discharge complaints	Respond to 100% of stormwater discharge complaints	December 31, 2020
Three	Investigate stormwater discharge complaints	Respond to 100% of stormwater discharge complaints	December 31, 2021
Four	Investigate stormwater discharge complaints	Respond to 100% of stormwater discharge complaints	December 31, 2022
Five	Investigate stormwater discharge complaints	Respond to 100% of stormwater discharge complaints	December 31, 2023

3(e) - MS4 Staff Training

Stormwater staff will attend training on construction stormwater issues. This training may come from classes, seminars, professional membership meetings or TCEQ workshops.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Stormwater Staff	One training per staff	December 31, 2019
	Training	member	
Two	Stormwater Staff	One training per staff	December 31, 2020
	Training	member	
Three	Stormwater Staff	One training per staff	December 31, 2021
	Training	member	
Four	Stormwater Staff	One training per staff	December 31, 2022
	Training	member	
Five	Stormwater Staff	One training per staff	December 31, 2023
	Training	member	

3(f) – Voluntary Coordination Meeting with Land Developers

If requested by a land developer, the County will hold a meeting to discuss County rules and regulations. The meeting will include the Transportation Department, Public Health Department and Fire Marshall's Office. Along with the other items discussed, the land developer will be made aware of the TPDES Stormwater Construction Permits and the iSWM Design Manual for Construction. The county STRONGLY recommends that all developers use this manual and follow the TPDES Stormwater Permits.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Meetings with	Hold three meetings	December 31, 2019
	Land Developers		,
Two	Meetings with	Hold three meetings	December 31, 2020
	Land Developers		,
Three	Meetings with	Hold three meetings	December 31, 2021
	Land Developers		ŕ
Four	Meetings with	Hold three meetings	December 31, 2022
	Land Developers		,
Five	Meetings with	Hold three meetings	December 31, 2023
	Land Developers		_ ,

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<u>Part III: MCM 4 – Post Construction Storm Water Management in New</u> <u>Development and Redevelopment</u>

The intent of this MCM is to lessen the storm water quality impacts after construction has been completed on new and redeveloped sites (1 acre or larger of disturbed earth). To the extent allowable under State law, Tarrant County will develop and implement a Post Construction MCM in unincorporated Tarrant County, which includes both urbanized and other areas. Since Texas counties do not have the rule/ordinance making authority that cities have, the County cannot enforce a program to reduce pollutants in post construction storm water runoff at new and redeveloped sites.

The County will participate in this MCM by allowing the use of unlined or pervious drainage ditches, instead of impervious concrete gutter and underground storm drain pipe systems, which cities typically require, and other activities. Compared to impervious underground storm drain pipe systems, above ground open grassy drainage ditch systems allow more storm water runoff to soak into the ground, which reduces downstream runoff velocities (erosion reduction), provides a means of detaining and treating, to a degree, some pollutants (sediment, nutrients/fertilizers, detergents, etc.) and allows illicit discharges to be easier to observe and locate. Drainage ditch systems are usually less costly to install and are compatible with large lots that are required for OSSF's which provides obvious incentives for their continued installation during and beyond this permit period. Tarrant County maintains drainage ditches and channels that serve County roads and will continue to do so throughout the permit term.

4(a) - Allow Pervious Drainage Systems

In the Tarrant County Subdivision & Land Use Regulations Manual, the County will generally allow developers, home builders and residents in unincorporated areas to use open, unlined grassy storm drainage ditches next to streets. This is an example of a policy that is both cost effective to the construction community and environmentally effective for the County's storm water permit. Specific legal agreements with some adjacent cities may supersede this policy, but overall the policy will continue to be allowed.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
		Guais	
One	Subdivision & Land	One Manual	December 31, 2019
	Use Regulations		,
	Manual		
Two	Subdivision & Land	One Manual	December 31, 2020
	Use Regulations	0	, , ,
	Manual		
Three	Subdivision & Land	One Manual	December 31, 2021
	Use Regulations		, ,
	Manual		
Four	Subdivision & Land	One Manual	December 31, 2022
	Use Regulations		,
	Manual		
Five	Subdivision & Land	One Manual	December 31, 2023
	Use Regulations		
	Manual		

4(b) - Tracking Pervious Drainage Systems

Tarrant County crews will maintain the open grass lined drainage ditches beside County roads in unincorporated Tarrant County. This will allow the drainage system to operate properly and allow stormwater to filter through the grass lined ditches.

Permit Year	BMP	Measurable Goals	Deadline/Frequen
			cy
One	Determine Amount of Grass Line Ditches	Review One Report	December 31, 2019
Two	Determine Amount of Grass Line Ditches	Review One Report	December 31, 2020
Three	Determine Amount of Grass Line Ditches	Review One Report	December 31, 2021
Four	Determine Amount of Grass Line Ditches	Review One Report	December 31, 2022
Five	Determine Amount of Grass Line Ditches	Review One Report	December 31, 2023

4(c) - Texas SmartScape Website

Tarrant County will continue to support *Texas SmartScape* activities both in the North Texas Region and County. New homeowners and others will be encouraged to use native and adapted plant landscaping. This will be accomplished by providing promotional materials and internet links (from either the Tarrant County's main website or the Tarrant County Public Health Department's webpage) to www.txsmartscape.com which will be maintained by NCTCOG.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Review the number of website visits	Review one report from NCTCOG	December 31, 2019
Two	Review the number of website visits	Review one report from NCTCOG	December 31, 2020
Three	Review the number of website visits	Review one report from NCTCOG	December 31, 2021
Four	Review the number of website visits	Review one report from NCTCOG	December 31, 2022
Five	Review the number of website visits	Review one report from NCTCOG	December 31, 2023

4(d) - New and Current County Facilities Landscapes

As Tarrant County believes this BMP to be a long-term maintenance of post construction stormwater control measures for our county facility sites, we will continue to encourage new and current County facilities to plant *Texas SmartScape* or comparable landscapes. Tarrant County staff will photograph current and new county facilities documenting the use of native plants and other water conservation efforts.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Photograph	Photograph Three	December 31, 2019
	County Facilities	County Facilities	
Two	Photograph	Photograph Three	December 31, 2020

	County Facilities	County Facilities	
Three	Photograph	Photograph Three	December 31, 2021
	County Facilities	County Facilities	
Four	Photograph	Photograph Three	December 31, 2022
	County Facilities	County Facilities	
Five	Photograph	Photograph Three	December 31, 2023
	County Facilities	County Facilities	

4(e) - iSWM Design Manual for Construction

This manual created by the NCTCOG is used to provide guidance to governmental entities, property owners, land developers, engineers, and contractors for reducing the impact of stormwater runoff from construction activities on downstream natural resources and properties. The manual establishes the framework and provides the tools to effectively plan, install and maintain erosion and sediment controls, soil stabilization and Best Management Practices (BMPs) for construction site stormwater runoff. The Tarrant County Engineer has developed a letter to be sent to prospective land developers in the unincorporated county that STRONGLY recommends all developers and construction site operators use the manual.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Promote the use of	Send out 10 Letters	December 31, 2019
	the iSWM Manual		
Two	Promote the use of	Send out 10 Letters	December 31, 2020
	the iSWM Manual		
Three	Promote the use of	Send out 10 Letters	December 31, 2021
	the iSWM Manual		
Four	Promote the use of	Send out 10 Letters	December 31, 2022
	the iSWM Manual		
Five	Promote the use of	Send out 10 Letters	December 31, 2023
	the iSWM Manual		

4(f) - Tarrant County Floodplain Development Permit

The Tarrant County Engineer is the Certified Floodplain Manager for the County. He oversees the Floodplain Development Permit Program for unincorporated Tarrant County. He receives Permit Applications and then reviews to determine if the information is in compliance with County and FEMA regulations. If the information in the application is satisfactory, a Permit is issued.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Issue Floodplain	Issue Two Floodplain	December 31, 2019
	Permits	Permits	
Two	Issue Floodplain	Issue Two Floodplain	December 31, 2020
	Permits	Permits	
Three	Issue Floodplain	Issue Two Floodplain	December 31, 2021
	Permits	Permits	
Four	Issue Floodplain	Issue Two Floodplain	December 31, 2022
	Permits	Permits	
Five	Issue Floodplain	Issue Two Floodplain	December 31, 2023
	Permits	Permits	

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<u>Part III: MCM 5 – Pollution Prevention/Good Housekeeping for Municipal</u> <u>Operations</u>

Tarrant County has established a program to conduct its general operations in a manner that prevents or reduces pollution in storm water runoff to the maximum extent practicable. This MCM requires a local government to examine multiple internal operations to see if they can be maintained or modified to prevent or minimize storm water pollution or illicit discharges. As stated by TCEQ, examples of local government operations include, but are not limited to: street and road maintenance; fleet and building maintenance; storm water system maintenance; parking lots; vehicle and equipment maintenance and storage yards. Staff has determined that Tarrant County has no county owned or operated industrial activities that are subject to TPDES Multi-Sector General Permit. Tarrant County also does not own or operate composting facilities, hazardous waste disposal facilities, hazardous waste handling or transfer facilities, incinerators, landfills, golf courses, or solid waste handling and transfer facilities.

5(a) - County Owned Facilities Visits

Identify Tarrant County facilities activities that have a potential to impact stormwater quality or generate illicit discharges by site visits. This will be accomplished by conducting site surveys of County owned facilities.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	N/A	N/A	N/A
Two	Visit County	50% of County Facilities	December 31, 2020
	Facilities	Visited	
Three	Visit County	50% of County Facilities	December 31, 2021
	Facilities	Visited	
Four	N/A	N/A	N/A
Five	N/A	N/A	N/A

5(b) – County Employee Training

The training program will consist of videos and educational materials developed by NCTCOG and other private providers. Stormwater staff will train employees about pollution prevention techniques, illicit discharges, illicit connection, and good housekeeping practices.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	N/A	N/A	N/A
Two	Train Public Health (Environmental Division) and Facilities Management personnel	Perform two class room trainings	December 31, 2020
Three	Train Transportation Department and the four Precinct Yard personnel	Perform five class room trainings	December 31, 2021
Four	Train Public Health (Environmental Division) and Facilities Management personnel	Perform two class room trainings	December 31, 2022
Five	Train Transportation Department/the four Precinct Yard personnel	Perform five class room trainings	December 31, 2023

5(c) - <u>Disposal of Waste Material</u>

A report will be updated to document the proper disposal of waste generated from County MS4 related operations or maintenance. This report will continue to address dredge spoil, accumulated sediments and floatables (trash and debris in storm drain system).

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	N/A	N/A	N/A
Two	Update Report	Review One Report	December 31, 2020
Three	N/A	N/A	N/A
Four	Update Report	Review One Report	December 31, 2022
Five	N/A	N/A	N/A

5(d) - Contractor Requirements and Oversight

Tarrant County storm water staff will work with the Facilities Management Department, Transportation Department and Purchasing Department to require any county hired contractors to follow all stormwater good housekeeping BMP's when working on county grounds or projects. These requirements will be placed in the agreements with contractors that go before Commissioners Court.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Contractor Agreements with County	One Commissioner Court Agenda Item	December 31, 2019
Two	Contractor Agreements with County	One Commissioner Court Agenda Item	December 31, 2020
Three	Contractor Agreements with County	One Commissioner Court Agenda Item	December 31, 2021
Four	Contractor Agreements with County	One Commissioner Court Agenda Item	December 31, 2022
Five	Contractor Agreements with County	One Commissioner Court Agenda Item	December 31, 2023

5(e) - SPCC Plans for County Facilities - Training

Tarrant County has reviewed its County owned facilities and determined that five sites needed SPCC Plans and one site needs additional spill control training for its employees. Therefore, the County will perform SPCC training for employees at six locations.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Perform SPCC	Six SPCC Trainings	December 31, 2019
	Training		
Two	Perform SPCC	Six SPCC Trainings	December 31, 2020
	Training		·
Three	Perform SPCC	Six SPCC Trainings	December 31, 2021
	Training		
Four	Perform SPCC	Six SPCC Trainings	December 31, 2022
	Training		,
Five	Perform SPCC	Six SPCC Trainings	December 31, 2023
	Training		,

5(f) - SPCC Plans for County Facilities - Inspection

Tarrant County has reviewed its County owned facilities and determined that five sites needed SPCC Plans. Based on SPCC regulations, each site will receive an annual site inspection by MS4 staff. Therefore, the County will perform SPCC inspections at five locations.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Perform SPCC Inspection	Five SPCC Inspections	December 31, 2019
Two	Perform SPCC Inspection	Five SPCC Inspections	December 31, 2020
Three	Perform SPCC Inspection	Five SPCC Inspections	December 31, 2021
Four	Perform SPCC Inspection	Five SPCC Inspections	December 31, 2022
Five	Perform SPCC Inspection	Five SPCC Inspections	December 31, 2023

5(g) - Identifying Chemical Pollutants of Concern at County Facilities

Tarrant County reviewed its County owned facilities and determined five sites have the potential to discharge chemical pollutants of concern. Stormwater staff will perform an annual assessment of these five sites, identify pollutants of concern locations and visually inspect the chemical locations for spills or potential problems. This will be documented by preparing a work place chemical list (chemicals present in the work place in excess of 55 gallons or 500 pounds) for each site.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Complete Work	Five Work Place	December 31, 2019
	Place Chemical	Chemical Lists	
	List		
Two	Complete Work	Five Work Place	December 31, 2020
	Place Chemical	Chemical Lists	· ·
	List		

Three	Complete Work Place Chemical List	Five Work Place Chemical Lists	December 31, 2021
Four	Complete Work Place Chemical List	Five Work Place Chemical Lists	December 31, 2022
Five	Complete Work Place Chemical List	Five Work Place Chemical Lists	December 31, 2023

5(h) – Application Events by County Licensed Applicators for Pesticides

Tarrant County Public Health Vector Control Team has licensed pesticide applicators who maintain an SDS of all pesticides purchased and used as part of the county control programs in unincorporated Tarrant County and any contracted municipalities. In following state and federal regulations, the team will follow safe application practices to maintain integrity of the environment and stormwater runoff. Stormwater staff will receive one spray event report at the end of each calendar year from the Vector Control staff.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Maintain a copy of spray event	Review one report	December 31, 2019
Two	Maintain a copy of spray event	Review one report	December 31, 2020
Three	Maintain a copy of spray event	Review one report	December 31, 2021
Four	Maintain a copy of spray event	Review one report	December 31, 2022
Five	Maintain a copy of spray event	Review one report	December 31, 2023

5(i) - Structural Control Maintenance

Tarrant County Precinct crews maintain the open vegetative lined drainage ditches beside County roads on an as needed basis (citizen complaints or minor flooding) or when maintenance is performed on the adjacent road. This work allows the drainage system to operate properly, reduces flooding potential and removes debris from the ditches.

Permit Year	BMP	Measurable Goals	Deadline/Frequency
One	Document Linear Ditch Feet Cleaned	Review One Report	December 31, 2019
Two	Document Linear Ditch Feet Cleaned	Review One Report	December 31, 2020
Three	Document Linear Ditch Feet Cleaned	Review One Report	December 31, 2021
Four	Document Linear Ditch Feet Cleaned	Review One Report	December 31, 2022
Five	Document Linear Ditch Feet Cleaned	Review One Report	December 31, 2023

MS4 Staff Contacts:

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Part IV – RECORDKEEPING and REPORTING

Part IV. 1 – Recordkeeping

Tarrant County will maintain all records, a copy of the TPDES general permit and all data used to complete the application (NOI) for this permit, for a period of at least three years, or for the term of this permit, whichever is longer. A current/updated copy of the SWMP, NOI and a copy of the permit language/requirements will be maintained at the Tarrant County Public Health Department.

Tarrant County will make the records, including the NOI and SWMP available to the public, if requested to do so in writing. The SWMP will be available within two working days following the request from the public. Other records will be provided within 10 working days, unless the request requires an unusual amount of time or effort to assemble. In this case, Texas law regarding the Public Information Act will be followed. Reasonable charges, in accordance with Texas law, may be levied by the County for researching and preparing any requested materials.

Section IV.2 - Annual Report

Tarrant County will submit a concise annual report to the Executive Director of TCEQ within 90 days of the end of each permit year. The annual report will address the requirements listed in the TPDES Phase 2 MS4 general permit rules. The County will also maintain hard copies of annual reports at the Tarrant County Public Health Department and the annual reports will be available for review on the Tarrant County Transportation Department webpage.

Tarrant County plans to use the calendar year option as annual reporting year. For example, Permit Year One (January 1, 2019 to December 31, 2019), Tarrant County's Permit Year One Annual Report will be submitted 90 days after December 31, 2019.

Core Data Sheet