**City of Farmers Branch**
**Storm Water Management Program**
**Phase II MS4 Permit No. TXR040000**
**Permit Term 01/01/2015 through 12/31/2019**

**City of Farmers Branch**
**13000 William Dodson Parkway**
**Farmers Branch, TX 75381**
**(972) 247-3131**

**Year One Implementation Tasks and Goals Report**
**8/13/2013 through 12/31/2014**

*Note: Implementation dates are subject to change. The subsequent goals will be met within the specified year. The Storm Water Management Plan covers the entire City of Farmers Branch including areas outside the designated urbanized area.*

## 1.0 Public Education, Outreach, and Involvement

**Best Management Practices:**

**1. Storm Water Media (brochures, flyers, bookmarks, CD's, pet waste bag holders):** Distribution of media for the purpose of educating residents, visitors, public service employees, businesses, commercial and industrial facilities and construction site personnel on storm water quality issues.

Implementation Tasks:

1. Update the list of appropriate locations for media postings and acquire permission of location owners for posting, if necessary.

2. Annually report on the number of media posted under this program.

3. Post media at selected locations.
*Pet waste bag holders to educate public service employees, residents and visitors. Approximately 300 distributed in year 1.*
*Landscape waste management tri-folds to educate residents, visitors, businesses and industrial facilities. Approximately 200 distributed in year 1.*

Measurable Goals:

Year 1-5: Annually post 100 media at selected locations, including library and Animal Adoption Center.
Year 1-5: Purchase 500 pet waste bag holders for distribution through Animal Adoption Center and special events.
*Goal Met.*

Best Management Practice Effectiveness:
*The posting and distribution of education materials to educating residents, visitors, public service employees, businesses, commercial and industrial facilities and construction site personnel on storm*

*water quality issues that should improve water quality by complying with local, state and federal regulations. The pet waste bag holders are distributed to citizens at public events and at the Animal Adoption Center to provide the citizens a means to remove pet waste which will reduce the amount of bacteria and other pathogens that enter the waterways.*

**2. Storm Water Quality Web Site:** Maintenance of a web site in the Environmental Health Division home page designed to education the public on the impacts of storm water runoff on local water bodies.

Implementation Tasks:

1. Update the web site in the Environmental Health Division home page designed to education the public on the impacts of storm water runoff on local water bodies.
*Task in progress.*

2. Post new information to the website as necessary.

4. Maintain records of website traffic using a sign-in log or hit counter.

5. Annually report on website traffic under this program.
*106 views in year 1.*

Best Management Practice Effectiveness:
*The posting and distribution of education materials on the City's website is to educate residents, visitors, public service employees, businesses, commercial and industrial facilities and construction site personnel on storm water quality issues that should improve water quality by complying with local, state and federal regulations.*

**3. Public Service Announcements:** Broadcasting of public service announcements (PSA's) that focus on the impacts of storm water runoff on local water bodies and steps the public can take to reduce storm water pollution.

Implementation Tasks:

1. Broadcast PSA's as local media and radio schedules permit.

2. Maintain records of the types of PSA's under this program.
*Task implemented*

3. Annually report on the types of PSA's under this program.
*Know Where it Goes-Paint, Yard Waste, Detergents, Fertilizer, Filter Back Wash, Oil & Grease, Motor Oil and Pet Waste.*

Measurable Goals:

Year 1-5: Broadcast public service announcements as local media schedules permit.

Year 1-5: Annually air PSA's 100 times on FBTV or other channels in Farmers Branch.
*Goal Met. Various PSA's aired at least 250 times in year 1.*

Best Management Practice Effectiveness:
*The posting and distribution of education materials on the City's TV stations and other media sources to educate residents and, visitors on practices that should reduce pollutants in storm water runoff.*

**4. Pet Waste Video**: In cooperation with various cities, a pet waste video was produced to air on local cable TV.

Implementation Tasks:

1. Air pet waste video on local cable TV.

Measurable Goals:

Year 1-5: Annually air PSA's 100 times on FBTV or other channels in Farmers Branch.
*Goal Met. Various PSA's aired at least 250 times year 1.*

Best Management Practice Effectiveness:
*The posting of the pet waste video on the City's TV station is to educate residents and, visitors, on the practice of picking up after their pet which should reduce the bacteria loading of storm water runoff.*

**5. Participation in NCTCOG Regional Storm Water Program**: City participates in NCTCOG Regional Storm Water Program and pays annual cost share to participate in program.

Implementation Tasks:

1. Participate in program and serve on committees as needed.

Measurable Goals:

Year 1-5: Share resources and information to promote water quality in North Texas.
*The City is currently participating in the NCTCOG Storm Water Program. The City's current cost share is $3,417.00.*

Best Management Practice Effectiveness:
*The participation in NCTCOG Regional Storm Water Program allows the City to work with an organization that's purpose is to improve storm water quality in the region which should reduce pollutants into the waterways.*

**6. Pet Waste Station Installation and Maintenance:** Parks and Recreation Department has installed pet waste stations with disposable collection bags and waste disposal containers for pet waste. The department maintains the stations.

Implementation Tasks:

1. Maintain pet waste stations.

Measurable Goals:

Year 1-5: Estimate the number of dog waste bags purchased for pet waste stations.
*49,000 bags were purchased for the pet waste stations in year 1.*

Best Management Practice Effectiveness:

*Providing a means for park visitors to pick up after their pets should reduce the bacteria entering the MS4 and local streams.*

**7. Proper Disposal of Household Hazardous Waste:** Provide HHW information on City's website and continue participation in Dallas County HHW Network for the life of the program.

Implementation Tasks:

1. Report citizen participation in HHW Network.

2. Provide technical assistance and pickup, if necessary, for senior citizens in community.

Measurable Goals:

Year 1-5: Annually report number of HHW participants.
*412 citizen participants in year 1.*

Best Management Practice Effectiveness:
*Participation in the hazardous household waste network should reduce the amount of hazardous waste deposited in local landfills or streams.*

**8. Participation in the Upper Trinity Watershed Partners (UTWP):** UTWP is composed of stakeholders from local, state, and federal government agencies, including the University of North Texas and the North Central Texas Council of Governments, environmental protection organizations, and concerned individuals. Farmers Branch is a charter member. The Upper Trinity River Watershed includes jurisdictions which discharge storm water into Lake Lewisville.

Implementation Tasks:

2. Maintain level of annual financial support to UTWP to maintain education and outreach program.
*The City of Farmers Branch provides approximately $4,000 in yearly support to the UTWP. In year 1, approximately 500 fifth grade students visited the Elm Fork Nature Center at the University of North Texas to learn about watersheds, water quality, and protecting our drinking water.*

Best Management Practice Effectiveness:
*The participation in the Upper Trinity Watershed Partners allows the City to work with an organization that's purpose is to improve storm water quality in the upper trinity watershed region which should reduce pollutants into receiving waters.*

**9. Public Notification Process of Storm Water Management Plan (SWMP):** In accordance with state law, public comments will be accepted regarding the draft SWMP. Written responses will be provided to each written comment received from Farmers Branch citizens.
*All goals and implementation tasks were met in year one.*

**10. Storm Drain Curb Markers:** Installation of storm drain curb markers.

Implementation Tasks:

5. Annually report on number of curb markers installed on storm drains.
*51 curb markers installed in year 1.*

Measurable Goals:

Year 1-5: Annually install 50 curb drain markers on curb drains in the City.
*Goal Met. 51 curb markers installed in year 1.*

Best Management Practice Effectiveness:
*The storm drain makers on inlets read "Drains to Creek" which should alert the public not to dispose of waste into the storm water inlet.*

**11. Community Hotline:** Maintain a community hotline for the public to call and report storm water quality problems.

Implementation Tasks:

3. Annually report on the number and type of public reports received through the community hotlines.
*11 callers used the hotline to report storm water quality/storm water issues in year 1.*

Best Management Practice Effectiveness:
*The posting and distribution of the storm water hotline to report any water quality issue allows callers a means of contacting the City in case there is a water quality issue that requires attention. Reporting of water quality issues will allow the City to investigate the reported issues using the illicit discharge detection and elimination minimum control measure.*

## 2.0 Illicit Discharge Detection and Elimination (IDDE)

**Best Management Practices:**

**1. Illicit Discharge Legal Authority:** Prohibit illicit discharges of non-storm water to the MS4 using established legal authority.

Implementation Tasks:

5. Annually report on the number of illicit discharges that are identified, eliminated, and the associated enforcement actions issued.
*781 Notice of Violations/Warnings and four (4) court citations issued based on identified illicit discharges in year 1.*

Best Management Practice Effectiveness:
*The development and implementation of ordinances allows the City to enforce storm water regulations which will case illicit discharges and improve water quality.*

**2. Maintain the MS4 and Outfall Inventory:** Maintain an updated map of the MS4 indicating the location of storm water discharge outfalls.

Implementation Tasks:

4. Annually report on the number of new outfall locations identified under this program.

*Fourew outfalls were identified in year 1.*

Best Management Practice Effectiveness:
*The outfall inventory provides locations for dry weather screening of outfalls in order to detect illicit discharges.*

**3. MS4 Dry Weather Outfall Screening:** Conduct systematic inspection of outfalls in the MS4 in order to identify the presence of illicit discharges and sample outfalls utilizing dry weather screening.

Implementation Tasks:

1. Review outfall screening forms and procedures for record keeping and data entry into MS4 outfall screening databases and update as needed.
*Task implemented 06/01/2014 and is in progress.*

4. Maintain records of outfall screening and investigations for each outfall and any elimination activities.
*Task implemented 3/30/2010 and is in progress.*

5. Annually report on the number of outfalls screened, number of non-storm water discharges, number of illicit discharges, and elimination activities conducted under this program.
*50 outfalls screened in year 1.*

Measurable Goals:

Year 1-5: Complete screening of at least 50 of the storm water outfalls that discharge to the MS4 per year.
*Goal Met. 50 outfalls screened in year 1.*

Best Management Practice Effectiveness:
*The development of outfall screening forms and procedures for record keeping allows the City track which inlets need attention in order to improve storm water quality*.

**4. Illicit Discharge Employee Training:** Educate permittee personnel on the identification of illicit discharges and procedures for reporting observations to outfall inspection personnel.

Implementation Tasks:

2. Annually report on the personnel training program in terms of the number of training sessions conducted and employee attendance.
*383 employees trained during 41 training sessions in year 1.*

Measurable Goals:

Year 1-5: Conduct training for identified personnel in accordance with the identified schedule.
*Goal Met.*

Best Management Practice Effectiveness:
*Reporting of water quality issues will allow outfall inspection personnel to investigate the reported issues and cease the discharge if illicit.*

**5. Sanitary Sewer System Overflow Elimination:** Identify and reduce the occurrences of sanitary sewer system overflows. Report sanitary sewer system overflows as required by TCEQ regulations.

Implementation Tasks:

5. Annually report on the number of sanitary sewer system overflows identified.
*6 sanitary sewer system overflows identified and reported to the TCEQ in year 1.*

Measurable Goals:

Year 1-5: Properly document and report the location and characteristics of each sanitary sewer system overflow detected to the TCEQ.
*Goal Met.*

Year 1-5: Investigate locations of reported sanitary sewer system overflows reported by the public.
*Goal Met.*

Year 1-5: Maintain a sanitary sewer system map of the area within the regulated MS4 boundary.
*Goal Met.*

Year 1-5: Maintain the education program to all residential customers for the proper disposal of grease. The information will be included in the City's Monthly newsletter.
*Goal Met.*

Year 1-5: Annually clean 30,000 feet of the collection system.
*287,949 feet of the collection system was cleaned in year 1.*

Year 1-5: Perform inspections of existing manholes. Contracted maintenance crews will rehabilitate manholes when necessary as they are identified during the inspection process.
*Goal Met.*

Best Management Practice Effectiveness:
*The investigation, cleaning and repair of sewer lines improves water quality by reducing the amount of sewage exposed to storm water.*

## 3.0 Construction Site Stormwater Runoff Control

**Best Management Practices:**

**1. Construction Legal Authority:** Use established legal authority (Farmers Branch Code of Ordinances, Sec. 34-81 through 34-84), which regulates construction sites in accordance with local, state, and federal laws.

Measurable Goals:

Year 1-5: Enforce the regulations as appropriate to regulate storm water discharges from local construction sites.
*Goal Met.*

**2. Construction Inspection Procedures:** Update inspection procedures and educate the local construction community on local storm water regulations related to construction activities

Implementation Tasks:

1. Update inspection forms and procedures necessary to inspect local construction sites in order to ensure compliance with local construction storm water regulations for use on mobile devices.
*In progress*

Best Management Practice Effectiveness:
*The implement a construction inspection program that focuses on compliance with local construction storm water regulations allows the City address any issues throughout the construction process.*

**3. Construction Plans Review:** Maintain a construction plans review process that focuses on compliance with local construction storm water regulations.

Implementation Tasks:

5. Annually report on the number of plans reviewed, approved and rejected under the plans review program.
*14 plans reviewed, 9 plans approved year 1.*

Best Management Practice Effectiveness:
*The implement a construction plans review process that focuses on compliance with local construction storm water regulations allows the City address any issues before that start of construction.*

**4. Construction Site Inspection:** Conduct inspections of local construction sites that discharge storm water to the MS4 to determine compliance with local construction storm water regulations and use established legal authority to conduct enforcement and corrective actions.

Implementation Tasks:

6. Annually report on the total number of construction sites permitted, the number of construction sites inspected, and the number of enforcement actions issued.
*Seven (7) total construction sites under permits, 282 inspections and a total of 4 violations in year 1.*

Best Management Practice Effectiveness:
*Conducting inspections of local construction sites that discharge storm water to the MS4 to determine compliance with local construction storm water regulations reduces the possibility of illicit discharges.*

**5. Permittee Owned Construction Sites:** Comply with local, state, and federal construction storm water regulations that apply to permittee owned and operated construction sites.

Implementation Tasks:

5. Annually report on the number of permittee owned and operated construction projects permitted under state and/or federal construction storm water regulations.
*One (1) site permitted under TXR1500000 construction regulations in year 1.*

Best Management Practice Effectiveness:
*Complying with local, state, and federal construction storm water regulations that apply to permittee owned and operated construction sites should reduce illicit discharges.*

## 4.0 Post-Construction Stormwater Management in New Development and Redevelopment

**Best Management Practices:**

**1. Post-Construction Runoff Legal Authority:** Use established legal authority (Farmers Branch Code of Ordinances Sec. 34-86) to require post-construction control measures and maintenance of post-construction control measures in areas of new and redevelopment.

Implementation Tasks:

1. Review the list of local development storm water quality related issues that require regulation including consideration of the following: - Retention of pre-development runoff characteristics- Protection of sensitive water bodies- Open space and landscaping requirements- Increase of impervious area- Cost benefit of structural and non-structural controls- Structural control measures or certification of no impact to hydrological regime or water quality of receiving stream(s) due to local conditions, off-site drainage features, topography, or any other verifiable characteristics- Assurances of long term operation and maintenance of structural control measures.
*Goal met*

**2. New Development and Re-development Plans Review:** Systematically review development and re-development plans to ensure compliance with local post-construction runoff regulations.

Implementation Tasks:

1. Review current process of obtaining development construction plans for review to determine compliance with local post-construction runoff regulations.
*Goal met*

3. Annually report on the number of plans reviewed, approved, and rejected under this program.
*14 plans reviewed, 9 plans approved year 1.*

Best Management Practice Effectiveness:
*The implementation of a construction plans review process that focuses on compliance with local construction storm water regulations allows the City address any issues before the start of construction.*

**4. New Development and Re-development Project Inspection**: Inspect local new development and re-development projects to ensure conformance to approved plans and local post-construction runoff regulations.

Implementation Tasks:

1. Review internal tracking procedures for tracking development projects that are under construction and that have been completed.
*Goal met*

6. Annually report on the number of development project sites inspected, and the number of enforcement actions issued.
*1 post construction control (pet waste station) was inspected in year 1; no enforcement action took place.*

Best Management Practice Effectiveness:
*Conducting inspections of local construction sites that discharge storm water to the MS4 to determine compliance with local construction storm water regulations reduces the possibility of illicit discharges.*

**5. Permittee Owned New Development and Re-development Projects:** Comply with local post-construction runoff regulations and plans review requirements on permittee owned and operated new development and re-development projects.

Implementation Tasks:

1. Review permittee construction project planning and design criteria to determine changes needed to comply with local, state, and/or federal construction storm water regulations.
*Goal met*

5. Report annually on the number of permittee owned projects approved, constructed, and inspected.
*One (1) plan is in progress and is inspected weekly.*

Best Management Practice Effectiveness:
*Complying with local, state, and federal construction storm water regulations that apply to permittee owned and operated construction sites should reduce illicit discharges.*

## 5.0 Pollution Prevention and Good Housekeeping for Municipal Operations

**Best Management Practices:**

**1. Street Sweeping:** Sweeping of streets and roadways in order to reduce the amount of sediment and associated pollutants discharged to the MS4 from roadways.

Implementation Tasks:

5. Annually report on the distance swept using curb miles.
*384 miles of curb miles swept in year 1.*

Best Management Practice Effectiveness:
*Street sweeping has removed approximately 350.33 cubic yards of debris from entering the storm sewer system.*

**2. Pesticide, Herbicide, and Fertilizer Application:** Train employees on the proper use of pesticide, herbicide, and fertilizer products.

Implementation Tasks:

4. Annually report on the total volume of pesticide and herbicide applied and the progress of any projects that results in a reduction of pesticide and herbicide application volumes.
*Amount of Chemical Purchased: Insecticides-17.69 gallons of liquid, 2404 pounds of granules / Herbicides- 450 gallons of liquid, 11428 pounds of granules / Fertilizers- 20 gallons of liquid, 16825 pounds of granules.*

*The City has conducted classes that encourage residents to reduce their use of pesticides, herbicides and fertilizers such as, Earth Kind Gardening, Organic Rose Care, and composting classes. The City's Rose Garden and Community Garden are used as examples in the use of alternative products such as the use of molasses and vinegar used to treat weeds and molasses to treat fire ants.*

Best Management Practice Effectiveness:
*Complying with MSD sheets, applicator license requirements and the educational classes should reduce to the amount of chemical that enters the City's MS4.*

**3. Catch Basin Cleaning:** Reduce sediment and floatable materials discharges by routinely cleaning MS4 catch basin and storm water inlet structures. Target storm water inlet boxes, which impact the Farmers Branch Creek Watershed. Identify problem areas such as major roadways and adjust frequency of cleaning storm water inlet structures. Install inlet protection as funding will allow to minimize floatable materials.

Implementation Tasks:

2. Install 80 inlet protectors per year in strategic locations to maximize floatables reduction.
*Notice of Change filed for number of inlet protectors to be reduced due to budget constraints.24 units were installed in year 1.*

5. Annually report on the number of inlet baskets, catch basins, surface inlets, and other MS4 structures cleaned.
*314 units cleaned in year 1.*

Best Management Practice Effectiveness:
*Catch basin cleaning has removed approximately 103 cubic yards of debris from entering the storm sewer system.*

**4. Landscaping and Lawn Care**: Reduce the discharge of landscaping and lawn care waste from permittee owned facilities through better mowing and landscaping maintenance practices.

Measurable Goals:

Year 1-5: Report estimated cubic yards of floatables removed from City parks.
*2257 cubic yard of floatables removed from parks in year 1.*

Best Management Practice Effectiveness:
*Removing floatables and trash from parks reduces floatables entering storm drains and waterways.*

**5. Vehicle Maintenance:** Maintain permittee owned vehicles according to manufacturer's specifications and identify and eliminate vehicle fluid leaks. Conduct weekly inspections of Senlac Service Center facility and facilitate cleaning of automotive fluid leaks or spills with assistance from Parks and Recreation and Public Works.

Implementation Tasks:

6. Annually report on the number of leaking vehicles repair and the total cost.
*103 leak repairs at the total cost of $47,158.49 in year 1.*

Measurable Goals:

Year 3: Develop and maintain an inventory of permittee owned vehicles. Report the number of vehicle and equipment inspections and repairs conducted in a permit year.
*1063 vehicle inspections in year 1.*

Year 3: Report the number of fluid leaks repaired.
*101 fluid leaks repaired in year 1.*

Best Management Practice Effectiveness:
Following vehicles manufacturer's maintenance specifications and the repair of leaking vehicles has reduced the amount of pollutant that would have come into contact with storm water.

**6. Spill Prevention Plans and Municipal Operations Training:** Comply with federal spill prevention control and counter measures plan regulations, and review spill response procedures to ensure storm water quality protection measures are considered during spill response.

Implementation Tasks:

1. Provide annual training to employees who fuel vehicles at the Senlac Service Center and employees involved in municipal operations subject to the house keeping/BMP requirements (street sweeping, catch basin cleaning, and vehicle maintenance). Maintain attendance records pursuant to applicable regulations.
*Environmental Health conducted 41 SPCC and Phase II Stormwater training sessions in year 1. 383 employees attended.*

4. Annually report on the number of facilities with SPCC plans and the current status of each SPCC plan.
*One facility in year 1. The SPCC Plan was reviewed and recertified by a Professional Engineer in April 2009.*

Best Management Practice Effectiveness:
*Providing training to employees on how to identify and report illicit discharges will increase water quality by the reduction of pollutants exposed to storm water.*

**8. Contractor Requirements and Oversight:** Comply with requirement that any contractors hired by the permittee to perform maintenance activities on permittee-owned facilities must be contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures.

Measurable Goals:

Year 1: Develop a certification statement to be signed by contracted parties agreeing to comply with stormwater requirements.
*Goal in progress; currently under attorney review. Implementation expected in Year 2.*

Best Management Practice Effectiveness:
*Requiring contracted parties to comply with stormwater requirements will increase water quality by the reduction of pollutants exposed to storm water.*

**9. Municipal Operation and Maintenance Activities:** Permittee will evaluate operation and maintenance activities for potential to discharge pollutants in stormwater, including but not limited to road and parking lot maintenance; bridge maintenance; cold weather operations; and right-of-way maintenance. Permittee will identify pollutants of concern that have potential to discharge from operation and maintenance activities and will implement pollution prevention measures to reduce discharge of pollutants.

Implementation Tasks:

1. Evaluate operation and maintenance activities for potential to discharge pollutants in stormwater.

2. Identify pollutants of concern that could be discharged from operation and maintenance activities.

Measurable Goals:

Year 1: Identify operation and maintenance activities with potential to discharge pollutants in stormwater.
*Goal met; plans currently underway to reduce risk potential to discharge pollutants in stormwater.*

Best Management Practice Effectiveness:
*Evaluating operation and maintenance activities to reduce potential to discharge pollutants in stormwater reduces polluntants.*

## 6.0 Industrial Stormwater Sources

The Industrial Stormwater Sources BMP is not applicable to the City of Farmers Branch.

## 7.0 Authorization for Construction Activities where the Small MS4 is the Site Operator

**1. Develop Storm Water Pollution Prevention Plans and comply with TXR150000.**

Measurable Goals:

Year 1-5: Report the number of municipal construction activities applicable to this best management practice.
*One 2.34 acre construction project currently in progress and inspected weekly.*

Responsible Party:

Community Services and Public Works

**Permit Continuance Schedule**

**City of Farmers Branch**
**Storm Water Management Program**
**Phase II MS4 Permit No. TXR040240**

**Year Two Implementation Tasks and Goals Report**
**1/1/15 through 12/31/2015**

## 1.0 Public Education, Outreach, and Involvement

**Best Management Practices:**

**1. Storm Water Media (brochures, flyers, bookmarks, CD's, pet waste bag holders):** Distribution of media for the purpose of educating residents, visitors, public service employees, businesses, commercial and industrial facilities and construction site personnel on storm water quality issues.

Implementation Tasks:

2. Annually report on the number of media posted under this program.

Measurable Goals:

Year 1-5: Annually post 100 media at selected locations, including library and Animal Adoption Center.

**2. Storm Water Quality Web Site:** Maintenance of a web site in the Environmental Health Division home page designed to education the public on the impacts of storm water runoff on local water bodies.

Implementation Tasks:

5. Annually report on website traffic under this program.

Measurable Goals:

**Year 2**: Update the storm water quality website to include new information.

**3. Public Service Announcements:** Broadcasting of public service announcements (PSA's) that focus on the impacts of storm water runoff on local water bodies and steps the public can take to reduce storm water pollution.

Implementation Tasks:

3. Annually report on the types of PSA's under this program.

Measurable Goals:
Year 1-5: Annually air PSA's 100 times on FBTV or other channels in Farmers Branch.

**4. Pet Waste Video**: In cooperation with various cities, a pet waste video was produced to air on local cable TV.

Measurable Goals:

Year 1-5: Annually air PSA's 100 times on FBTV or other channels in Farmers Branch.

**5. Participation in NCTCOG Regional Storm Water Program**: City participates in NCTCOG Regional Storm Water Program and pays annual cost share to participate in program.

**6. Pet Waste Station Installation and Maintenance:** Parks and Recreation Department has installed pet waste stations with disposable collection bags and waste disposal containers for pet waste. The department maintains the stations.

Measurable Goals:

Year 1-5: Estimate the number of dog waste bags purchased for pet waste stations.

**7. Proper Disposal of Household Hazardous Waste:** Provide HHW information on City's website and continue participation in Dallas County HHW Network for the life of the program.

Implementation Tasks:

1. Report citizen participation in HHW Network.

Measurable Goals:

Year 1-5: Annually report number of HHW participants.

**8. Participation in the Upper Trinity Watershed Partners (UTWP):** UTWP is composed of stakeholders from local, state, and federal government agencies, including the University of North Texas and the North Central Texas Council of Governments, environmental protection organizations, and concerned individuals. Farmers Branch is a charter member. The Upper Trinity River Watershed includes jurisdictions which discharge storm water into Lake Lewisville.

2. Maintain level of annual financial support to UTWP to maintain education and outreach program.

**9. Public Notification Process of Storm Water Management Plan (SWMP):** In accordance with state law, public comments will be accepted regarding the draft SWMP. Written responses will be provided to each written comment received from Farmers Branch citizens.

*No reportable goals and implementation tasks for the Public Notification Process of Storm Water Management Plan (SWMP) best management practice in year two. All goals and implementation tasks were met in year one.*

**10. Storm Drain Curb Markers:** Installation of storm drain curb markers.

Implementation Tasks:

1. Update list of groups that may be willing to participate in the storm drain stenciling program including consideration of the following groups: - Local boy and Girl Scout organizations- Local school groups- Local fund raising groups- Other civic organizations

5. Annually report on number of curb markers installed on storm drains.

Measurable Goals:

Year 2: Invite targeted groups to participate in curb drain marker program.

Year 2: Identify new target areas or streets to be included in the storm drain curb marker program. Begin installing curb drain markers.

Year 1-5: Annually install 50 curb drain markers on curb drains in the City.

**11. Community Hotline:** Maintain a community hotline for the public to call and report storm water quality problems.

Implementation Tasks:

1. Update and distribute public education materials via the city website that detail the types of storm water quality issues that should be reported through the community hotlines.

3. Annually report on the number and type of public reports received through the community hotlines.

Measurable Goals:

Year 2: Distribute community hotline public education material in accordance with identified schedule utilizing city's website and/or other media outlets.

## 2.0 Illicit Discharge Detection and Elimination (IDDE)

**Best Management Practices:**

**1. Illicit Discharge Legal Authority:** Prohibit illicit discharges of non-storm water to the MS4 using established legal authority.

Implementation Tasks:

5. Annually report on the number of illicit discharges that are identified, eliminated, and the associated enforcement actions issued.

**2. Maintain the MS4 and Outfall Inventory:** Maintain an updated map of the MS4 indicating the location of storm water discharge outfalls.

Implementation Tasks:

4. Annually report on the number of new outfall locations identified under this program.

Measurable Goals:

Year 1-5: Identify new outfalls and drainage structures during the review of development and construction plans.

Year 1-5: Annually update the map of the MS4 including MS4 receiving streams, storm water outfalls, permit coverage area, and any other information that may be required by the designated NPDES permitting authority.

**3. MS4 Dry Weather Outfall Screening:** Conduct systematic inspection of outfalls in the MS4 in order to identify the presence of illicit discharges and sample outfalls utilizing dry weather screening.

Implementation Tasks:

5. Annually report on the number of outfalls screened, number of non-storm water discharges, number of illicit discharges, and elimination activities conducted under this program.

Measurable Goals:

Year 1-5: Complete screening of at least 50 of the storm water outfalls that discharge to the MS4 per year.

**4. Illicit Discharge Employee Training:** Educate permittee personnel on the identification of illicit discharges and procedures for reporting observations to outfall inspection personnel.

Implementation Tasks:

2. Annually report on the personnel training program in terms of the number of training sessions conducted and employee attendance.

Measurable Goals:

Year 1-5: Conduct training for identified personnel in accordance with the identified schedule.

**5. Sanitary Sewer System Overflow Elimination:** Identify and reduce the occurrences of sanitary sewer system overflows. Report sanitary sewer system overflows as required by TCEQ regulations.

Implementation Tasks:

5. Annually report on the number of sanitary sewer system overflows identified.

Measurable Goals:

Year 1-5: Maintain the education program to all residential customers for the proper disposal of grease. The information will be included in the City's Monthly newsletter.

Year 1-5: Annually clean 30,000 feet of the collection system.

**6. On-site sewage disposal systems:** There are no OSSFs within the MS4 boundaries.

## 3.0 Construction Site Stormwater Runoff Control

**Best Management Practices:**

**1. Construction Legal Authority:** Use established legal authority (Farmers Branch Code of Ordinances, Sec. 34-81 through 34-84), which regulates construction sites in accordance with local, state, and federal laws.
*No reportable goals and implementation tasks for the Construction Legal Authority best management practice in year two. All goals and implementation tasks were met in year one.*

**2. Construction Inspection Procedures:** Update inspection procedures and educate the local

construction community on local storm water regulations related to construction activities

Implementation Tasks:

1. Update inspection forms and procedures necessary to inspect local construction sites in order to ensure compliance with local construction storm water regulations for use on mobile devices.

Measurable Goals:

Year 2: Update draft inspection forms and procedures necessary to inspect local construction sites in order to ensure compliance with local construction storm water regulations.

Year 2: Produce the final version of the local development project inspection forms and procedures for use on mobile devices.

**3. Construction Plans Review:** Maintain a construction plans review process that focuses on compliance with local construction storm water regulations.

Implementation Tasks:

1. Review the process to obtain construction plans for review to determine compliance with local construction storm water regulations.

Measurable Goals:

Year 2: Implement the construction plans review procedures for local construction sites.

Year 2: Develop a process to obtain construction plans for review to determine compliance with local construction storm water regulations.

**4. Construction Site Inspection:** Conduct inspections of local construction sites that discharge storm water to the MS4 to determine compliance with local construction storm water regulations and use established legal authority to conduct enforcement and corrective actions.

Implementation Tasks:

6. Annually report on the total number of construction sites permitted, the number of construction sites inspected, and the number of enforcement actions issued.

Measurable Goals:

Year 1-5: Issue enforcement actions to owners and operators of local construction sites that are not in compliance with local construction storm water regulations.

Year 1-5: Inspect qualifying construction sites using appropriate inspection procedures and forms to ensure compliance with local storm water regulations.

**5. Permittee Owned Construction Sites:** Comply with local, state, and federal construction storm water regulations that apply to permittee owned and operated construction sites.

Implementation Tasks:

5. Annually report on the number of permittee owned and operated construction projects permitted under state and/or federal construction storm water regulations.

Measurable Goals:

Year 1-5: Submit required documents in order to obtain permit coverage for permittee owned and operated projects to maintain compliance with applicable state and/or federal construction storm water permit provisions.

Year 1-5: Develop documents required for obtaining state and/or federal construction storm water permits applicable to permittee owned and operated construction sites.

Year 2: Review permittee owned construction project, planning, and design criteria to determine changes needed to comply with local, state, and/or federal construction storm water regulations.

## 4.0 Post-Construction Stormwater Management in New Development and Redevelopment

**Best Management Practices:**

**1. Post-Construction Runoff Legal Authority:** Use established legal authority (Farmers Branch Code of Ordinances Sec. 34-86) to require post-construction control measures and maintenance of post-construction control measures in areas of new and redevelopment.

*No reportable goals and implementation tasks for the Post-Construction Runoff Legal Authority best management practice in year two. All goals and implementation tasks were met in year one.*

**2. New Development and Re-development Plans Review:** Systematically review development and re-development plans to ensure compliance with local post-construction runoff regulations.

Implementation Tasks:

1. Review current process of obtaining development construction plans for review to determine compliance with local post-construction runoff regulations.

3. Annually report on the number of plans reviewed, approved, and rejected under this program.

Measurable Goals:

Year 2: Review the process used to obtain development construction plans for review to determine compliance with local post-construction runoff regulations.

**3. Development Project Inspection Procedures:** Update inspection forms and procedures for new development and re-development project inspections based on the local post-construction runoff regulations.

Implementation Tasks:

2. Update inspection forms and procedures necessary to inspect local new and re-development projects in order to ensure compliance with local post-construction runoff regulations and approved plans.

3. Produce the final version of the local development project inspection forms and procedures for use on mobile devices.

Measurable Goals:

Year 2: Produce the final version of the local development project inspection forms and procedures for use on mobile devices.

**4. New Development and Re-development Project Inspection**: Inspect local new development and re-development projects to ensure conformance to approved plans and local post-construction runoff regulations.

Implementation Tasks:

6. Annually report on the number of development project sites inspected, and the number of enforcement actions issued.

Measurable Goals:

Year 1-5: Issue enforcement actions to owners or operators of local development projects that are not in compliance with local post-construction runoff regulations.

Year 1-5: Inspect qualifying development project sites using adopted inspection forms and procedures to ensure conformance with local post-construction runoff regulations.

Year 1-5: Train new inspection personnel on local post-construction runoff regulations and final inspection procedures.

Year 1-5: Maintain a list of local development projects that qualify for inspection under local post-construction runoff regulations.

**5. Permittee Owned New Development and Re-development Projects:** Comply with local post-construction runoff regulations and plans review requirements on permittee owned and operated new development and re-development projects.

Implementation Tasks:
5. Report annually on the number of permittee owned projects approved, constructed, and inspected.

Measurable Goals:

Year 1-5: Conduct inspections of permittee owned development projects in accordance with the same standards as private development project inspections.

Year 1-5: Conduct the development plans review process for all permittee owned new development and re-development projects.

## 5.0 Pollution Prevention and Good Housekeeping for Municipal Operations

Municipally owned industrial activities subject to TPDES industrial storm water regulations:

Camelot Land Fill located at 580 Huffines BLVD, Lewisville TX, 75056

**Best Management Practices:**

**1. Street Sweeping:** Sweeping of streets and roadways in order to reduce the amount of sediment and associated pollutants discharged to the MS4 from roadways.

Implementation Tasks:

5. Annually report on the distance swept using curb miles.

Measurable Goals:

Year 1-5: Street sweep a minimum of 700 curb miles of roadway per year.

Year 2: Implement street sweeping in accordance with the identified schedule.

**2. Pesticide, Herbicide, and Fertilizer Application:** Train employees on the proper use of pesticide, herbicide, and fertilizer products.

Implementation Tasks:

2. Annually report on the total volume of pesticide and herbicide applied and the progress of any projects that results in a reduction of pesticide and herbicide application volumes.

Measurable Goals:

Year 2: Review current Chemical Application Plan (CAP), which limits runoff of chemicals from rainfall events and modify if needed.

**3. Catch Basin Cleaning:** Reduce sediment and floatable materials discharges by routinely cleaning MS4 catch basin and storm water inlet structures. Target storm water inlet boxes, which impact the Farmers Branch Creek Watershed. Identify problem areas such as major roadways and adjust frequency of cleaning storm water inlet structures. Install inlet protection as funding will allow to minimize floatable materials.

Implementation Tasks:

5. Annually report on the number of inlet baskets, catch basins, surface inlets, and other MS4 structures cleaned.

**4. Landscaping and Lawn Care**: Reduce the discharge of landscaping and lawn care waste from permittee owned facilities through better mowing and landscaping maintenance practices.

Implementation Tasks:

2. Report annually on the activities conducted under this program.

Measurable Goals:

Year 1-5: Report estimated cubic yards of floatables removed from City parks.

**5. Vehicle Maintenance:** Maintain permittee owned vehicles according to manufacturer's specifications and identify and eliminate vehicle fluid leaks. Conduct weekly inspections of Senlac Service Center facility and facilitate cleaning of automotive fluid leaks or spills with assistance from Parks and Recreation and Public Works.

Implementation Tasks:

6. Annually report on the number of leaking vehicles repair and the total cost.

Measurable Goals:

Year 2: Review vehicle inspection and maintenance records to evaluate conformance to vehicle manufacturer service specifications and local storm water program requirements.

Year 1-5: Maintain an inventory of permittee owned vehicles. Report the number of vehicle and equipment inspections and repairs conducted in a permit year.

Year 1-5: Report the number of fluid leaks repaired.

**6. Spill Prevention Plans and Municipal Operations Training:** Comply with federal spill prevention control and counter measures plan regulations, and review spill response procedures to ensure storm water quality protection measures are considered during spill response.

Implementation Tasks:

1. Provide annual training to employees who fuel vehicles at the Senlac Service Center and employees involved in municipal operations subject to the house keeping/BMP requirements (street sweeping, catch basin cleaning, and vehicle maintenance). Maintain attendance records pursuant to applicable regulations.

4. Annually report on the number of facilities with SPCC plans and the current status of each SPCC plan.

**7. Permittee-owned Facilities and Control Inventory**: Comply with requirement to develop and maintain an inventory, including all applicable permit numbers, registration numbers, and authorizations of facilities and stormwater controls within the MS4 including the following: composting facilities; equipment storage and maintenance facilities; fuel storage facilities; hazardous waste disposal facilities; hazardous waste handling and transfer facilities; incinerators; landfills, materials storage yards; pesticide storage facilities; buildings, including schools, libraries, police stations, fire stations, and office buildings; parking lots; golf courses; swimming pools; public works yards; recycling facilities; salt storage facilities; solid waste handling and transfer facilities; street repair and maintenance sites; vehicle storage and maintenance yards; and structural stormwater controls.

Implementation Tasks:

1. Develop an inventory of facilities and stormwater controls owned by the permittee.

Measurable Goals:

Year 2: Create inventory list of permittee-owned facilities.

**8. Contractor Requirements and Oversight:** Comply with requirement that any contractors hired by the permittee to perform maintenance activities on permittee-owned facilities must be contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures.

Measurable Goals:

Year 1: Develop a certification statement to be signed by contracted parties agreeing to comply with stormwater requirements.

**9. Municipal Operation and Maintenance Activities:** Permittee will evaluate operation and maintenance activities for potential to discharge pollutants in stormwater, including but not limited to road and parking lot maintenance; bridge maintenance; cold weather operations; and right-of-way maintenance. Permittee will identify pollutants of concern that have potential to discharge from operation and maintenance activities and will implement pollution prevention measures to reduce discharge of pollutants.

Implementation Tasks:

3. Develop and implement measures to reduce discharge of pollutants in stormwater from operation and maintenance activities.

4. Inspect pollution prevention measures to ensure they are working properly.

Measurable Goals:

Year 1: Identify operation and maintenance activities with potential to discharge pollutants in stormwater.

Year 2: Implement pollution prevention measures.

Year 2: Develop inspection schedule of implemented measures.

## 6.0 Industrial Stormwater Sources

The Industrial Stormwater Sources BMP is not applicable to the City of Farmers Branch.

## 7.0 Authorization for Construction Activities where the Small MS4 is the Site Operator

**Best Management Practices:**

**1. Develop Storm Water Pollution Prevention Plans and comply with TXR150000.**

Measurable Goals:

Year 1-5: Report the number of municipal construction activities applicable to this best management practice.

**Table B.2**

| MCM(s) | BMP | BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain. |
|---|---|---|
| 1 | Distribution of media for the purpose of educating residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel on stormwater quality issues. | Yes; The posting and distribution of education materials to residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel on stormwater quality issues increases awareness and improves water quality |
| 1 | Maintenance of a website in the Environmental Health Division home page designed to educate the public on the impacts of stormwater runoff into local waterways. | Yes; The posting of educational materials on the city's website serves to educate residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel on stormwater quality issues increase awareness and encourages compliance with regulations. |
| 1 | Broadcasting of public service announcements that focus on the impacts of stormwater runoff on local water bodies and steps the public can take to reduce stormwater pollution. | Yes; The posting and distribution of educational materials on the city's tv stations and other media sources to educate residents and visitors on practices serves to reduce pollutants in stormwater runoff. |
| 1 | In cooperation with various cities, a pet waste video was produced to air on local cable TV. | Yes; The posting of the pet waste video on the city's TV station serves to educate residents and visitors on the practice of picking up after their pet which reduces bacterial loading of stormwater runoff. |
| 1 | City participates in the NCTCOG Regional Storm Water Program and pays an annual cost share to participate in the program. | Yes; The participation in NCTCOG Regional Storm Water Program allows the city to work with an organization whose purpose is to improve stormwater quality in the region. |
| 1 | The Parks and Recreation Department has installed pet wastes stations with disposable collection bags and waste disposal containers for pet waste. | Yes; Providing a means for park visitors to pick up after their pets reduces the volume of bacteria entering the MS4. |
| 1 | Provide HHW information on the city's website and continue participation in Dallas County HHW Network for the life of the program. | Yes; Participation in the HHW network reduces the volume of hazardous waste deposited in local landfills or streams. |
| 1 | Participate in Upper Trinity Watershed Partners (UTWP) | Yes; The participation in UTWP allows the City to work with an organization whose purpose is to improve storm water quality |
| 1 | Install storm drain curb markers | Yes; The storm drain markers on inlets read "Drains to Creek" which alters the public not to dispose of waste into the inlet. |

**Table B.2**

| | | |
|---|---|---|
| 1 | Maintain a community hotline for the public to call and report storm water quality problems | Yes; The stormwater hotline allows residents and visitors to report water quality issues that may require attention. Reporting of water quality issues enables the city to investigate and remediate when needed. |
| 2 | Prohibit illicit discharges of non-stormwater to the MS4 using established legal authority | Yes; Implementation of ordinances allows enforcement of stormwater regulations which will reduce illicit discharges and improve water quality |
| 2 | Maintain an updated map of the MS4 indicating the locations of storm water discharge outfalls. | Yes; The outfall inventory provides locations for dry weather screening of outfalls in order to detect illicit discharges. |
| 2 | Conduct systematic inspection of outfalls in the MS4 in order to identify the presence of illicit discharges and sample outfalls utilizing dry weather screening. | Yes; The development of outfall screening forms and procedures for record keeping allow the city to track which inlets need attention in order to improve storm water quality. |
| 2 | Educate permittee personnel on the identification of illicit discharges and procedures for reporting observations to outfall inspection personnel. | Yes; Reporting of water quality issues will allow outfall inspection personnel to investigate the reported issues and cease illicit discharge. |
| 2 | Identify and reduce the occurrences of sanitary sewer system overflows. Report sanitary sewer system overflows as required by TCEQ. | Yes; The investigation, cleaning, and repair of sewer lines improves water quality by reducing the amount of sewage exposed to storm water. |
| 3 | Use established legal authority (Farmers Branch Code of Ordinances Sec. 24-81 through 34-84) which regulates construction sites in accordance with local, state, and federal laws. | Yes; Legal authority gives stormwater personnel ability to inspect, regulate, and enforce stormwater related issues and laws. |
| 3 | Update inspection procedures and educate the local construction community on local stormwater regulations related to construction activities. | Yes; The implementation of a construction inspection program that focuses on compliance with local construction storm water regulations allows the City to address any issues throughout the construction process. |
| 3 | Maintain a construction plans review process that focuses on compliance with local construction storm water regulations. | Yes; The implementation of a construction plans review process that focuses on compliance with local regulations allows the city to address any issues before the start of construction. |
| 3 | Conduct inspections of local construction sites that discharge stormwater to the MS4 to determine compliance with local construction stormwater regulations and use | Yes; Conducting inspections of local construction sites that discharge stormwater to the MS4 to determine compliance with local regulations reduces the possibility of illicit discharges. |

**Table B.2**

| | | |
|---|---|---|
| | established legal authority to conduct enforcement and corrective actions. | |
| 3 | Comply with local, state, and federal construction stormwater regulations that apply to permittee-owned and operated construction sites. | Yes; Complying with local, state, and federal construction stormwater regulations that apply to permittee-owned and operated construction sites should reduce illicit discharges. |
| 4 | Use established legal authority (Farmers Branch Code of Ordinances Sec. 34-86) to require post-construction control measures and maintenance of post-construction control measures in areas of new and redevelopment. | Yes; Legal authority gives stormwater personnel ability to inspect, regulate, and enforce stormwater related issues and laws |
| 4 | Systematically review development and redevelopment plans to ensure compliance with local post-construction runoff regulations. | Yes; The implementation of a construction plans review process that focuses on compliance with regulations allows the city to address any issues before the start of construction. |
| 4 | Inspect local new development and re-development projects to ensure conformance to approved plans and local post-construction runoff regulations. | Yes; Conducting inspections of local construction sites that discharge stormwater to the MS4 to determine compliance with local construction stormwater regulations reduces the possibility of illicit discharges. |
| 4 | Comply with local post-construction runoff regulations and plans review requirements on permittee-owned and operated new development and re-development projects. | Yes; Complying with local, state, and federal construction stormwater regulations that apply to permittee-owned and operated construction sites should reduce illicit discharges. |
| 5 | Sweep streets and roadways in order to reduce the amount of sediment and associated pollutants discharged to the MS4 from roadways. | Yes; Street sweeping has prevented approximately 133.5 cubic yards of debris from entering the storm sewer system in Year 2. |
| 5 | Train employees on the proper use of pesticide, herbicide, and fertilizer products. | Yes; Complying with MSD sheets, applicator license requirements, and education should reduce the amount of chemical that enters the MS4. |
| 5 | Reduce sediment and floatable materials by routinely cleaning MS4 catch basin and inlet structures. Target stormwater inlet boxes, which impact the Farmers Branch Creek Watershed. Identify problem areas such as major roadways and adjust frequency of cleaning stormwater inlet structures. Install inlet protection as funding will allow to minimize floatable materials. | Yes; Catch basin cleaning has removed approximately 150.75 cubic yards of debris from entering the storm sewer system. Inlet protectors prevent floatables from entering the stormwater system. |

**Table B.2**

| | | |
|---|---|---|
| 5 | Reduce the discharge of landscaping and lawn care waste from permittee-owned facilities through better mowing and landscaping maintenance practices. | Yes; Removing floatables and trash from parks reduces floatables entering storm drains and waterways. |
| 5 | Maintain permittee-owned vehicles according to manufacturer's specifications and identify and eliminate vehicle fluid leaks. Conduct weekly inspections of Senlac Service Center facility and facilitate cleaning of automotive fluid leaks or spills with assistance from Parks and Recreation and Public Works. | Yes; Following vehicle manufacturer's maintenance specification's and the repair of leaking vehicles has reduced the amount of pollutant that would have come into contact with stormwater. |
| 5 | Comply with federal spill prevention control and countermeasures plan regulations and review spill response procedures to ensure stormwater quality protection measures are considered during spill response. | Yes; Providing training to employees on how to identify and report illicit discharges will increase water quality by reducing pollutants exposed to stormwater. |
| 5 | Comply with requirement that any contractors hired by the permittee to perform maintenance activities on permittee-owned facilities must be contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures. | Yes/No; Requiring contracted parties to comply with stormwater requirements will increase water quality by reducing pollutants exposed to stormwater. However, contracts already require compliance with city ordinances. Therefore, further contracts are not required. |
| 5 | Permittee will evaluate operation and maintenance activities for potential to discharge pollutants in stormwater. Including but not limited to: road and parking lot maintenances; bridge maintenance; cold weather operations; and right-of-way maintenance. Permittee will identify pollutants of concern that have potential to discharge from operation and maintenance activities and will implement pollution prevention measures to reduce discharge of pollutants. | Yes; Evaluating operation and maintenance activities will help prevent the discharge of pollutants to stormwater. |
| 7 | Develop stormwater pollution prevention plans and comply with TXR150000 | Yes; Utilizing SWPPPs and complying with TXR 150000 will help prevent the discharge of pollutants to stormwater. |

**Table B.4**

| MCM | MCM Measurable Goal(s) | Success |
|---|---|---|
| 1 | Annually post 100 media at selected locations | Goal met |
| 1 | Purchase 500 pet waste bag holders for distribution | Goal met |
| 1 | Update the website on the Environmental Health Division home page | Goal met |
| 1 | Post new information to the website as necessary | Goal met |
| 1 | Maintain records of website traffic using a hit counter | Goal met |
| 1 | Annually report on website traffic under this program | Goal met; 214 views in year 2 |
| 1 | Broadcast PSAs on FBTV or other channels in Farmers Branch | Goal met |
| 1 | Annually report on the types of PSAs under this program | Goal met; K*now Where it Goes: Paint, Yard Waste, Detergents, Fertilizer; Filter Backwash; Oil & Grease, Motor Oil, and Pet Waste* |
| 1 | Annually air PSAs 100 times on FBTV or other channels in Farmers Branch | Goal met |
| 1 | Share resources with the NCTCOG Regional Stormwater Program | Goal met; the City's cost share is $3092.00 |
| 1 | Maintain pet waste stations | Goal met |
| 1 | Estimate the number of dog waste bags purchased for pet waste stations | Goal met; Approximately 14,800 waste bags purchased |
| 1 | Annually report number of HHW participants | Goal met; 542 participants |
| 1 | Provide technical assistance and pickup for senior citizens in community when needed | Goal met |
| 1 | Maintain level of annual financial support to UTWP to maintain education and outreach program | Goal met; $4000 contributed to UTWP in year 2 |
| 1 | Invite groups to participate in curb drain marker program | Goal not met; still in progress |
| 1 | Identify new target areas or streets to be included in storm drain curb marker program | Goal met |
| 1 | Annually report on number of curb markers installed on curb inlets. Install 50 curb markers per year. | Goal met; 50 curb markers installed in year 2 |
| 1 | Annually report on the number and type of public reports receive through the community hotlines. | Goal met; 16 callers in year 2. |
| 2 | Annually report on the number of illicit discharges that are identified, eliminated, and the associated enforcement actions issued. | Goal met; 11 Notice of Violations/Warnings and 0 court citations issued based on identified illicit discharges in year 2. |

**Table B.4**

| | | |
|---|---|---|
| 2 | Annually report on the number of new outfall locations identified under the MS4 and Outfall Inventory program. | Goal met; 12 new outfalls locations identified in year 2. |
| 2 | Review outfall screening forms and procedures for record keeping and data entry into MS4 outfall screening databases and update as needed | Goal met |
| 2 | Maintain records of outfall screening and investigations for each outfall and any elimination activities | Goal met |
| 2 | Complete screening of at least 50 of the storm water out falls that discharge to the MS4 per year | Goal met; 52 outfalls screened |
| 2 | Conduct illicit discharge training for employees and annually report on the number of training sessions and employee attendance | Goal met; 17 trainings completed, 172 employees attended |
| 2 | Annually report on the number of sanitary sewer overflows identified | Goal met; 13 overflows reported to TCEQ in year 2 |
| 2 | Properly document and report the location and characteristics of each sanitary sewer system overflow detected to the TCEQ | Goal met |
| 2 | Investigate locations of reported sanitary sewer system overflows reported by the public | Goal met |
| 2 | Maintain a sanitary sewer system map of the area within the regulated MS4 boundary | Goal met |
| 2 | Maintain the education program to all residential customers for the proper disposal of grease | Goal met |
| 2 | Annually clean 30,000 feet of the sanitary sewer collection system | Goal met; 187,404 feet cleaned |
| 2 | Perform inspections of existing manholes. Rehabilitate manholes when necessary. | Goal met |
| 3 | Enforce construction stormwater regulations as appropriate to regulate stormwater discharges from local construction sites | Goal met |
| 3 | Update inspection forms and procedures as necessary to inspect local construction sites in order to ensure compliance with local construction stormwater regulations for use on mobile devices | Goal met |
| 3 | Annually report on the number of plans reviewed under the stormwater plans review program | Goal met; 14 plans reviewed under plans review program |
| 3 | Report number of construction sites permitted, the number of construction sites inspected, and the number of enforcement actions issued | Goal met; 14 sites permitted and inspected; 8 Notice of Violations issued; 0 citations issued |
| 3 | Report number of permittee-owned construction sites owned and operated | Goal met; 0 permittee-owned or operated sites in year 2 |

**Table B.4**

| | | |
|---|---|---|
| 3 | Review permittee owned construction project, planning, and design criteria to determine changes needed to comply with regulations | Goal met; no changes needed |
| 4 | Review the process used to obtain development construction plans for review to determine compliance with local post-construction runoff regulations. | Goal met; no changes needed |
| 4 | Review the list of local stormwater quality related issues that require regulation | Goal met |
| 4 | Review current process of obtaining construction plans for review to determine compliance with local post-construction runoff regulations | Goal met |
| 4 | Review internal procedures for tracking development projects that are under construction and those that have been completed | Goal met |
| 4 | Annually report on the number of development project sites inspected for post-construction controls and the number of enforcement actions issued | Goal met; 2 sites inspected, 0 enforcement actions |
| 4 | Train new personnel on post-construction runoff regulations and final inspection procedures as needed | Goal met |
| 4 | Review permittee construction project planning and design criteria to determine changes needed to comply with local, state, and/or federal construction stormwater regulations | Goal met |
| 4 | Annually report on the number of permittee owned projects approved, constructed, and inspected | Goal met; 0 projects in year 2 |
| 5 | Annually report on distance swept using curb miles | Goal met; 1,204 miles swept |
| 5 | Annually report on the total volume of pesticide and herbicide applied | Goal met; Insecticides: 13 gallons liquid, 1,250 pounds granular; Herbicides: 389 gallons liquid, 11,500 pounds granular; Fertilizer: 20 gallons liquid, 16,300 pounds granular |
| 5 | Review current Chemical Application Plan and modify if needed | Goal met; No modifications needed |
| 5 | Install 40 inlet protectors per year to maximize floatables reduction | Goal not met; 18 installed in year 2. Staff shortages and budgetary constraints caused us to fall short of our goal of 40 inlet protectors per year |
| 5 | Annually report on the number of inlet baskets, catch basins, surface inlets, and other MS4 structures cleaned | Goal met; 908 units cleaned in year 2 |

**Table B.4**

| | | |
|---|---|---|
| 5 | Report estimated cubic yards of floatables removed from City parks | Goal met; 279.58 cubic yards of floatables removed |
| 5 | Annually report on the number of leaking vehicles repaired and the total cost | Goal met; 51 leak repairs at a total cost of $20,570.14 in year 2 |
| 5 | Review vehicle inspection and maintenance records to evaluate conformance to vehicle manufacturer service specifications and local stormwater program requirements | Goal met |
| 5 | Report the number of vehicle and equipment inspections in permit year | Goal met; 564 inspections in year 2 |
| 5 | Provide annual training to employees who fuel vehicles | Goal met; 17 trainings completed, 172 employees attended |
| 5 | Annually report on number of facilities with SPCC plans and the current status of each SPCC plan | Goal met; 1 facility in year 2. SPCC plan was reviewed and recertified in 2015. |
| 5 | Create inventory list of permittee-owned facilities and stormwater controls | Goal met |
| 5 | Develop a certification statement to be signed by contracted parties agreeing to comply with stormwater requirements | Goal not met; standard city contract requires contractors to comply with city ordinances. An additional certification statement is not necessary. |
| 5 | Evaluate operation and maintenance activities for potential to discharge pollutants to the storm sewer system | Goal met |
| 5 | Identify pollutants of concern that could be discharged from operation and maintenance activities | Goal met |
| 5 | Identify operation and maintenance activities with potential to discharge pollutants in stormwater | Goal met |
| 5 | Implement pollution prevention measures | Goal met; each department is educated on pollution prevention in an annual training |
| 5 | Develop inspection schedule of implemented measures | Goal met; each department is responsible for inspecting its own operation and maintenance activities to ensure pollution prevention. Training is provided annually. |
| 7 | Report the number of municipal construction activities subject to permittee-owned requirements | Goal met; none in 2015 |

**Table E.1**

| MCM(s) | BMP | Stormwater Activity | Description/Comments |
|---|---|---|---|
| 1 | Stormwater Media | Annually report on number of media posted under this program | Continue BMP |
| 1 | Stormwater Media | Annually post 100 media at selected locations | Continue BMP |
| 1 | Stormwater Quality Website | Annually report on traffic under this program | Continue BMP |
| 1 | Stormwater Quality Website | Continue to update website as needed | Continue BMP |
| 1 | Public Service Announcements | Annually report on types of PSA's under this program | Continue BMP |
| 1 | Public Service Announcements | Annually air PSA's 100 times on FBTV or other channels | Continue BMP |
| 1 | Pet Waste Video | Annually air PSA's 100 times on FBTV or other channels | Continue BMP |
| 1 | Participation in NCTCOG Regional Stormwater Program | Participate in committees as needed | Continue BMP |
| 1 | Pet Waste Station Installation and Maintenance | Estimate the number of dog waste bags purchased for pet waste stations | Continue BMP |
| 1 | Proper Disposal of Household Hazardous Waste | Report citizen participation in HHW Network | Continue BMP |
| 1 | Proper Disposal of Household Hazardous Waste | Annually report number of HHW participants | Continue BMP |
| 1 | Participation in the Upper Trinity Watershed Partners | Maintain level of annual financial support to UTWP | Continue BMP |
| 1 | Storm Drain Curb Markers | Invite community groups to participate in curb marker program | Continue BMP |
| 1 | Storm Drain Curb Markers | Annually install 50 curb markers and report number installed | Continue BMP |
| 1 | Community Hotline | Update and distribute education materials via city website | Continue BMP |
| 1 | Community Hotline | Annually report on the number and type of public reports received through the hotline | Continue BMP |
| 2 | Illicit Discharge Authority | Annually report on the number of illicit discharges that are identified, eliminated, and associated enforcement actions | Continue BMP |
| 2 | Maintain the MS4 and Outfall Inventory | Annually report on the number of new outfall locations identified under this program | Continue BMP |

**Table E.1**

| | | | |
|---|---|---|---|
| 2 | Maintain the MS4 and Outfall Inventory | Identify new outfalls and drainage structures during review of development and construction plans | Continue BMP |
| 2 | Maintain the MS4 and Outfall Inventory | Annually update the map of the MS4 | Continue BMP |
| 2 | MS4 Dry Weather Outfall Screening | Complete at least 50 dry weather screenings and annually report the number of outfalls screened | Continue BMP |
| 2 | Illicit Discharge Employee Training | Conduct training for identified personnel and annually report on the program in terms of number of training sessions conducted and employee attendance | Continue BMP |
| 2 | Sanitary Sewer System Overflow Elimination | Annually report on number of sanitary sewer system overflows | Continue BMP |
| 2 | Sanitary Sewer System Overflow Elimination | Maintain education program for proper disposal of grease | Continue BMP |
| 2 | Sanitary Sewer System Overflow Elimination | Annually clean 30,000 feet of the collection system | Continue BMP |
| 3 | Construction Site Inspection | Annually report on total number of construction sites permitted, the number of construction sites inspected, and the number of enforcement actions issued | Continue BMP |
| 3 | Construction Site Inspection | Issue enforcement actions to owners and operators not in compliance | Continue BMP |
| 3 | Construction Site Inspection | Inspect qualifying construction sites using appropriate inspection procedures and forms to ensure compliance | Continue BMP |
| 3 | Permittee Owned Construction Sites | Annually report on the number of permittee owned and operated construction projects | Continue BMP |
| 3 | Permittee Owned Construction Sites | Submit required documents in order to obtain permit coverage | Continue BMP |
| 3 | Permittee Owned Construction Sites | Develop documents required for obtaining permits applicable to permittee-owned sites | Continue BMP |
| 4 | New Development and Re-development Plans Review | Annually report on number of plans reviewed, approved, and rejected under this program | Continue BMP |
| 4 | New Development and Re-development Project Inspection | Annually report on the number of sites inspected and the number of enforcement actions issued | Continue BMP |

**Table E.1**

| | | | |
|---|---|---|---|
| 4 | New Development and Re-development Project Inspection | Issue enforcement actions as needed to ensure compliance with post-construction runoff regulations | Continue BMP |
| 4 | New Development and Re-development Project Inspection | Inspect sites as needed to ensure compliance with post-construction runoff regulations | Continue BMP |
| 4 | New Development and Re-development Project Inspection | Train new personnel on post-construction runoff regulations and final inspection procedures as needed | Continue BMP |
| 4 | New Development and Re-development Project Inspection | Maintain a list of local development projects that qualify for inspection under local post construction runoff regulations | Complete in year 3 |
| 4 | Permittee Owned New Development and Redevelopment Projects | Report annually on number of permittee-owned projects approved, constructed, and inspected | Continue BMP |
| 4 | Permittee Owned New Development and Redevelopment Projects | Conduct inspections of permittee-owned projects | Continue BMP |
| 4 | Permittee Owned New Development and Redevelopment Projects | Conduct plans review for all permittee-owned projects | Continue BMP |
| 5 | Street Sweeping | Street sweep a minimum of 700 curb miles per year and report miles swept | Continue BMP |
| 5 | Pesticide, Herbicide, and Fertilizer Application | Annually report on volume applied and projects that reduce in a reduction of application volume | Continue BMP |
| 5 | Catch Basin Cleaning | Annually report on the number of inlet baskets, catch basins, surface inlets, and other MS4 structures cleaned | Continue BMP |
| 5 | Landscaping and Lawn care | Report estimated cubic yards of floatables removed from city parks | Continue BMP |
| 5 | Vehicle Maintenance | Annually report on the number of leaking vehicles repaired and the total cost | Continue BMP |
| 5 | Vehicle Maintenance | Maintain an inventory of permittee owned vehicles. Report the number of inspections conducted | Continue BMP |
| 5 | Vehicle Maintenance | Report the number of fluid leaks repaired | Continue BMP |

**Table E.1**

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| 5 | Spill Prevention Plans and Municipal Operations Training | Provide annual training to employees who fuel vehicles | Continue BMP |
| 5 | Spill Prevention Plans and Municipal Operations Training | Annually report on number of facilities with SPCC plans and the current status of each SPCC plan | Continue BMP |
| 7 | Develop SWPPP and comply with TXR150000 | Report the number of municipal construction activities applicable to this BMP | Continue BMP |