

City of Abilene Storm Water Management Program (SWMP)

(August 9, 2019 – August 9, 2024)



Last Revised February 2020

CITY OF ABILENE

STORM WATER MANAGEMENT PROGRAM

The City of Abilene (City) has developed specific management programs that control the discharge of pollutants to its Municipal Separate Storm Sewer System (MS4). Taken together, these specific programs form the City's Storm Water Management Program (SWMP). SWMP shall provide compliance with City of Abilene's renewed MS4 Permit for term between August 9, 2019 and August 9, 2024. The City has developed its SWMP in accordance with requirements set forth in 40 CFR 122.26. Approval of this SWMP by Texas Commission on Environmental Quality (TCEQ), its incorporation into the City's Texas Pollutant Discharge Elimination System (TPDES) permit to discharge storm water, and the City's compliance with the schedules and programs identified in the SWMP shall be deemed as full compliance with Section 402 (p)(3)(B) of the Clean Water Act and Parts II and III of the TPDES permit. The specific programs included in the City's SWMP are addressed in this program. Acronyms used in this program and their associated definitions are referred from Part V of the Texas Pollutant Discharge Elimination Permit (TPDES) Permit No. WQ0004692000.

By submitting this stormwater management program and accepting a TPDES permit for its independent municipal separate storm sewer system, Abilene does not waive and expressly reserves its rights under the United States Constitution, including its rights under the Tenth Amendment.

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*MCM – Minimum Control Measures

MCM 1 – MS4 MAINTENANCE ACTIVITIES

A. STRUCTURAL CONTROLS

This section describes a program for maintaining and operating existing structural stormwater controls in a manner to reduce the discharge of pollutants to the maximum extent practicable. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(A)(1) and Part III.B.2.a.i of the City's TPDES permit.

Program Components

The following specific components are included for this portion of the SWMP.

- The Stormwater Services Division of the Public Works Department will maintain natural and improved drainage ditches, storm drains, culverts, flood control structures and other publicly controlled drainage structures and infrastructure. This includes publicly controlled detention basins within the city limits of Abilene. Stormwater infrastructure is maintained through various database tracking technologies such as MS4 web, Arc Reader, GIS, Cartegraph etc. Specific tasks performed by the Stormwater Services Division that provide water quality benefits will include the stabilization of slopes; the removal of sediment, debris, and litter (floatables) from drainage conveyances; maintaining drainage ditches by grading and mowing; and the repair of associated structures.
- The Stormwater Services Division will maintain all publicly controlled curb inlets and storm drains. Specific tasks to be performed by the Stormwater Services Division that will provide water quality benefits will include cleaning out the curb inlets and storm drains.

Program Schedule

Maintenance programs identified in this section are currently being conducted on an on-going basis. Since the primary focus of the program has been one of flood control, the activities are prioritized based upon the potential impact on the hydraulic capacity of the MS4 and citizen complaints. As a result, areas that tend to accumulate the most debris are addressed more frequently, while other areas may not require, and may not receive, any maintenance in a given year. At a minimum, the City will inspect all publicly controlled detention basins at least one time within a reporting year. Appropriate maintenance activities, if required shall be scheduled within one month of the inspection. The City will continue these programs during the term of the permit.

Performance measures

The City will track the following performance measures annually during the term of the permit.

- Number of publicly controlled detention basins inspected.
- Cubic yards of vegetation, debris and sediment removed from drainage ways to include detention basins, ditches, channels, culverts, outfalls, curb inlets and storm drains.
- Square yards of slope stabilization placed.
- Miles of creek channel maintenance performed.

- Acres maintained by mowing.
- Cubic Yards of tree trimmings performed.
- Cubic feet of litter collected from drainage-way maintenance of structural controls.

B. FLOATABLES

This section describes a program to limit the discharge of floatables (e.g. litter and other human generated solid refuse) into the MS4 by implementation of source controls, structural controls, and other appropriate controls. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(A)(1) and Part III.B.2.a.ii of the City's TPDES permit.

Program Components

The City will monitor floatables within the MS4 by evaluating the combined amount of material collected from area drainage ways as a result of the various litter control and stream maintenance programs identified in the SWMP. The Stormwater Services Division partners with Keep Abilene Beautiful (KAB), which is an affiliate of Keep America Beautiful and Keep Texas Beautiful, on various events to promote litter clean-ups within the community. In fact, the Stormwater Education Coordinator is also the Keep Abilene Beautiful Coordinator and therefore is able to cross correlate education and clean-up purposes.

- Adopt-A-Street/Creek/Spot Program: The Stormwater Services Division has developed the Adopt-a-Street/Creek program in partnership with KAB. Community groups (e.g. cub scouts groups, businesses, social clubs, etc.) sign two-year contract commitments to adopt a street or section of a local creek to conduct quarterly litter clean-up events. Each group received their name on a sign recognizing their Adopt-a-Street/Creek/Spot area. The Solid Waste Services Division has agreed to pick up the trash bags at a determined location after each clean-up event.
- Don't Mess with Texas Trash Off: Keep Abilene Beautiful will rally and organize local volunteers to participate in the annual Don't Mess with Texas Trash Off.
- Great American Cleanup: Keep Abilene Beautiful participates in the Great American Cleanup, which is a nationwide community improvement program. This includes activities such as litter cleanups; litter-free events; school and community playground and park cleanups, roadway cleanups; reduce, reuse, recycle activities with associated education; river, lake, lakeshore cleanups, and much more.
- Photometric Litter Index Survey: Every year, KAB conducts a Photometric Litter Index Survey of sites around the city to gauge the success of litter abatement programs. The results of this annual survey are locally published. The Survey is a visual assessment of the types and amounts of litter present throughout the community and assists KAB in developing events and locations for the coming year. The Litter Index helps keep track of the overall progress in reducing litter each year and is measured on a scale of one (1) to four (4). A rating of one (1) represents virtually no litter, and a rating of four (4) represents

heavily littered.

- Recognition Awards: Keep Abilene Beautiful will sponsor and present annual Recognition Awards in the categories of: Water Conservation, Beautification, and Recycling. The winners will also be recognized through various city-wide media outlets.
- Grants: KAB applies for the Governor's Community Achievement Grant each year. KAB also applies for various other grants, as opportunities present to initiate new projects, structural controls and offset operational costs. In addition, KAB annually donates and provides for local community beautification, litter reduction, and environmental education projects.
- Environmental Recycle Center (ERC) & Abilene Brush Center (ABC), Citizen Convenience Center (CCC) Collection and Tire Amnesty Days: ERC, a part of the City's Solid Waste Division, provides year-around collection and proper disposal of household items and chemicals. ABC provides year-around collection of yard waste and CCC provides year-around collection of bulky items, both part of City's Solid Waste Division. Keep Abilene Beautiful helps support the ERC's Tire Amnesty Day events. Under these programs, residents are encouraged to bring items they no longer use to recycle or discard at the ERC or a designated location for a normal or no fee. Tire Amnesty Day event runs for two to three days.
- Keep Abilene Beautiful with Stormwater Services promotes lake and creek litter cleanup events with local community organizations.

In 2007, the Solid Waste Services Division included in the City ordinance the following requirements to mitigate the introduction of litter into the MS4:

- Cover or enclose any collection container or vehicle used to transport municipal solid waste on any street or alley of the city.
- Keep all commercial solid waste collection containers equipped with lids closed to prevent spillage of waste.
- Keep property clean of solid waste thrown or left by customers and prevent garbage and debris from drifting or blowing to adjoining properties.
- Bag and securely tie, box, or bundle lightweight waste and loose items prior to placing in a collection container.
- Bag and tie securely, box, or bundle loose municipal solid waste and place in the collection container with a closed lid. Pick up small items lying loose on the ground as they will not be picked up by the Solid Waste Division.

Program Schedule

The City is currently performing all aspects of the programs identified and will continue the programs during the term of the permit.

Performance Measures

The City will track the following performance measures annually during the term of the permit.

- The number of groups participating in the Adopt-A-Street/Creek/Spot program.
- Amount of litter removed from streets/creeks/spots through the Adopt-A-Street/Creek/Spot program.
- The number of participants in the Don't Mess with Texas Trash Off.
- Amount of material collected during the Don't Mess with Texas Trash Off.
- The results of the photometric index survey will be reported every year.
- The number of lake or creek cleanups conducted.
- The number of enforcement actions by Solid Waste Services Division that helped to mitigate the introduction of litter into the MS4

C. ROADWAYS

This section describes a program for controlling the contribution of pollutants from public streets, roads, and highways. The program was developed in compliance with 40 CFR §122.26 (d)(2)(iv)(A)(3) and Part III.B.2.a.iii of the City's TPDES permit.

Program Components

The following specific components are included for this portion of the SWMP.

- The Stormwater Services Division continues to perform Street Sweeping Program primarily to aid in maintaining the regional water quality. A Street Sweeping Plan will be kept in-place outlining the logistics and operational policies of the program. High priority will be given to sweep spills and areas reported for potential health and safety concerns. The plan identifies priorities, routes and rotations to sweep to include: the central business district, high traffic transportation main streets, arterials, school zones, residential areas with curb and gutters, and City owned parking lots. Residential areas are swept on a grid-wise rotation covering both north and south sides of the City. Schedules and rotations may vary depending on numerous factors and are discussed elaborately in the City's Street Sweeping Plan. The City will assess regularly and make any changes needed in the Street Sweeping Plan to make improvements for watershed protection.
- The City's Streets Division maintains and implements a Snow and Ice Control plan. Meltdown 20 (Magnesium Chloride) is used, as required, for snow and ice control. Meltdown 20 is an environmental friendly alternative and is 75% less corrosive than salt as tested by TxDOT. This material dissipates after usage. During significant icing conditions, the Street & Maintenance Services Division uses Grade 6 rock on major streets to improve traction. The Grade 6 rock will only be utilized if weather conditions drop below -10° Fahrenheit or if Meltdown 20 is not available. In general, the City is more likely to close streets prior to applications of Grade 6 rock. Therefore, use of this material

should not impact water quality significantly, and the material will be recollected when the weather improves.

- All major roadway repairs are subject to the City's Drainage Standards, which identify appropriate erosion and sedimentation controls to be used during construction. Due to the nature of the work, City crews are instructed not to begin this type of work when rain is forecasted. Minor roadway repairs such as the repair of potholes are generally of short duration. Since minor roadway repairs should have very limited exposure to rainfall, these activities are not expected to contribute significant pollutant loads to the MS4.

Program Schedule

The City is currently performing all aspects of the programs identified and will continue the programs during the term of the permit.

Performance Measures

The City will track the following performance measures annually during the term of the permit.

- The number of curb miles swept.
- Cubic yards of material collected during sweeping activities.
- The amount in pounds of Meltdown 20 utilized.

MCM 2 – POST-CONSTRUCTION STORMWATER CONTROL MEASURES

A. AREAS OF NEW DEVELOPMENT AND SIGNIFICANT REDEVELOPMENT

This section describes a program for providing a plan for controlling the discharge of pollutants to the MS4 from areas of new development or areas of significant redevelopment. This program has been developed in compliance with 40 CFR §122.26 (d)(2)(iv)(A)(1) and Part III.B.2.b of the City's TPDES permit.

Program Components

The City has been prudent about the quality of its storm water runoff for many years since all of the runoff from the urban area flows into Lake Fort Phantom Hill (LFPH) which is the City's primary source of drinking water. As a result of this sensitivity, the City implemented a comprehensive sampling program for area creeks in 1969. In addition, the City has required that certain planning activities be conducted as part of the process through which new developments and areas of significant redevelopment are approved.

During the preparation of the City's Part 2 of the MS4 Application, the City completed a planning process to evaluate the impact that its development ordinances may have on water quality within its MS4. This planning process involved: 1) the identification of existing ordinances, 2) the development approval process, 3) the gathering of additional water quality data, 4) an evaluation of both historical and additional water quality data, 5) and an evaluation of changes that could be implemented to meet specific water quality objectives.

The existing ordinances and development approval process include the following requirements:

All private and public development or redevelopment is subject to either the City's Subdivision Ordinance or Building Code. In either case, the developer is required to comply with the City's published Drainage Standards. Compliance with the Drainage Standards requires the submittal and approval of a Drainage Plan or a drainage flow diagram. Drainage Plans are required for sites which are greater than one-half acre or result in the addition of more than 20,000 square feet of impervious cover. The Drainage Plan must be designed and stamped by a registered professional engineer and must address the hydrologic and hydraulic impacts of the proposed development. This plan must also identify measures to mitigate any potential adverse impacts. In addition, if the land disturbance, including sites that are part of larger common plan of development, is greater than one acre, an Erosion and Sedimentation Control Plan and/or Stormwater Pollution Prevention Plan must be developed. The development or redevelopment is required to implement, maintain, and inspect sediment/erosion control structures (silt fences, riprap, construction entrance, etc.) throughout the construction process to prevent the introduction of sediment and debris into the City of Abilene's stormwater conveyance system (e.g. streets, curb & gutter, drainage ditches, creeks, etc.). No drainage plan is required for sites of one-half acre or less with less than 45 percent impervious cover or improvements with less than 20,000 square-feet of impervious cover. The flow diagrams must demonstrate adverse impacts due to the development will be mitigated; however, the submittal requirements are less stringent due to the nature of the smaller projects. The City's ordinance requires on-site stormwater management and detention. It also provides flexibility for alternative design and downstream assessments so as to encourage site specific Best Management Practices (BMPs) that are suitable for the specific development. The drainage

standards provides mechanism for development to either keep BMPs private and maintain themselves or dedicate them to the City for maintenance. Public BMPs such as detention ponds, swales, etc. are dedicated to the City are set up for routine maintenance, as needed. Stormwater sections of the City Ordinance gives the City enforcement authority to inspect and require maintenance on private BMPs.

The City's review of the available water quality data did not identify significant areas of concern. Based on this finding, the City of Abilene has concluded its existing ordinances are adequately controlling the discharge of pollutants to its MS4 from areas of new development and significant redevelopment.

The Planning and Zoning Division's Landscape Ordinance, which requires a set "green space" from the street to the Parkway, creates parameters which require a specific amount of property be allocated for landscaping. Each zone (e.g. agriculture, light commercial, industrial, etc.) has different parameters for green space requirements that must be met. This ordinance provides for a grass swale filtration; a water quality benefit; prior to the runoff entering the MS4. This landscape requirements helps meet the City's MS4 permit requirements by reducing pollutants that enter the MS4 and lowering the hydrological runoff of the site.

As a result, the City will continue to enforce its existing development ordinances. The City will indicate in its annual report whether water quality conditions within its MS4 have changed significantly enough to warrant a re-evaluation of this conclusion.

The City Engineer and Stormwater Services Administrator are members of the City's Site Plan Review Committee, which provides information to developers and builders. The information provided through the Site Plan Review Committee includes, at a minimum, the requirements outlined above.

Program Schedule

The City is currently enforcing its development ordinances and will continue this program during the term of the permit. In addition, the City will evaluate its planning process on an on-going basis based on additional water quality data obtained during each year of the permit term.

Performance Measures

The City will track the following performance measures annually during the term of the permit.

- The number of site plans reviewed for the Site Plan Review Committee by the Stormwater Services Administrator and the City Engineer.
- The number of private BMPs/Ponds inspected and enforced for maintenance or water quality.

B. FLOOD CONTROL PROJECTS

This section describes a planning process to limit the contribution of pollutants to the Abilene MS4 through flood management structures and projects. The program was developed in compliance with 40 CFR §122.26(d)(2)(iv)(A)(4) and Part III.B.2.b.iv of the City's Texas Pollutant Discharge Elimination System (TPDES) permit.

Program Components

During the preparation of the City's Part 2 of the MS4 Application, the City completed a planning process to evaluate the possibility of addressing specific water quality concerns through modifications to its structural controls. This planning process involved: 1) identification of existing structural controls, 2) the gathering of additional water quality data, 3) an evaluation of both historical and the additional water quality data, 4) and an evaluation of modifications that could be implemented to meet specific water quality objectives.

Based on an evaluation of data collected by the sampling program conducted by the City since 1969, as well as the results of the characterization data obtained in preparation of the Part 2 Application, no specific water quality problems that could be effectively addressed through retrofitting of flood management projects have been identified. The City will continue to review water quality data to evaluate the need for retrofitting existing flood management projects.

The City's Engineering Division assesses each flood control project to determine the potential impacts on receiving waters. Consideration is given to these projects being designed, constructed, and maintained to provide erosion prevention and pollutant removal from stormwater.

The City currently requires contractors to submit plans assessing the impacts on the received waters for all flood control projects. This is ensured through flood development permit and drainage plan approvals by the Flood Plain Administrator (City Engineer). Project approval is contingent upon the authorization of these plans and permits. Erosion prevention and pollution removal for new flood control structures is coordinated through stormwater pollution prevention plan review and inspection process. City Inspectors include proper plan implementation in their regular inspections of such projects for both quantity and quality control. The City's Stormwater Services Division created an Abilene Master Drainage Plan (AMDP) showcasing potential retrofitting of existing structural flood control devices and developing new flood control projects. A road map for implementation of AMDP in next 25 years is made available. However, these projects are unfunded at this time and the implementation of AMDP will depend on future revenue generation and/or fee increases to generate additional revenue.

Program Schedule

The City will continually assess retrofitting existing flood management projects to enhance water quality benefits and incorporate water quality-related features in future flood projects. The water quality data obtained each year of the permit term will form the basis for this assessment.

Plans for controlling non-point source pollution will be integrated into all new flood management projects for the term of the permit.

Performance Measures

The City will track the following performance measures annually during the term of the permit.

- The number of flood control structures retrofitted/modified to improve receiving water quality.
- The number of new flood development permits issued and new flood control projects completed.

MCM 3 – ILLICIT DISCHARGES DETECTION AND ELIMINATION

Federal regulations require the SWMP to contain various storm water management programs that are designed specifically to locate and eliminate illicit discharges to the MS4.

This section contains description of the program, procedures, and subsections that address the following aspects of this program:

- A. Illicit Discharge Prohibition
- B. Elimination of Illicit Discharges and Improper Disposal
- C. Overflows and Infiltration
- D. Household Hazardous Waste and Used Motor Vehicle Fluid
- E. MS4 Screening and Illicit Discharge Inspections
- F. NPDES and TPDES Permittee List
- G. MS4 Map
- H. Spill Prevention and Response
 - 1. Spill Prevention Programs
 - 2. Spill Response Programs

A. ILLICIT DISCHARGE PROHIBITION

This section describes a program for prohibiting illicit discharges to the City's MS4. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(B)(1) and Part III.B.2.c.i to Part III.B.2.c xiv of the City's TPDES permit.

Program Components

Based on data collected during the application process, Abilene has not identified any of the types of discharges listed in 40 CFR §122.26(d)(2)(iv)(B)(1) as sources of pollutants to waters of the United States. Therefore, the City has decided to allow all of the listed non-stormwater discharges to the extent these discharges are not otherwise prohibited by an existing ordinance. This list is set out below:

Allowable Non-Stormwater Discharges

- | | |
|---|---|
| 1. Water line flushing | 13. Footing drains |
| 2. Landscape irrigation | 14. Lawn watering |
| 3. Diverted stream flows | 15. Street wash waters |
| 4. Rising ground waters | 16. Individual residential vehicle washing |
| 5. Uncontaminated ground water infiltration | 17. #7, 15, & 16 but without the use of detergents or surfactants |
| 6. Uncontaminated pumped groundwater | 18. Flows from riparian habitats and wetlands; dechlorinated swimming pool discharges; discharges listed in 40 CFR § 122.26(d)(iv)(B)(1); discharges as listed in TPDES permits TX150000 & TX050000 |
| 7. Discharges from potable water sources | 19. Other similar occasional incidental non-stormwater discharges |
| 8. Foundation drains | |
| 9. Air conditioner condensation | |
| 10. Irrigation water | |
| 11. Springs | |
| 12. Water from crawl space pumps | |

Additionally, the following discharges will not be addressed as illicit discharges by the City nor prohibited from entering the MS4:

1. discharges regulated by a separate NPDES or TPDES permit;
2. discharges for which an NPDES or TPDES permit application has been submitted or where neither an NPDES or TPDES permit is required; and
3. miscellaneous non-stormwater discharges.

Abilene's decision to allow these non-stormwater discharges, to the extent that they are not otherwise prohibited by an existing ordinance, is based on its desire to neither unnecessarily restrict activities that have not been shown to pollute Abilene's storm water nor arbitrarily limit its discretion to prohibit any pollution causing activity. By allowing all of the listed activities, while retaining the ability to enforce its existing ordinances, Abilene will be able to meet both of these goals.

The listed non-stormwater discharges have not been identified as sources of pollutants to waters of the United States. As noted in Abilene's Part I of the MS4 Application, because Abilene is predominately drained by a surface system and because the citizens have been conditioned to report any water in these surface drainages, the probability of long-term illicit discharges is very low. Additionally, analytical testing of the few dry weather flows found during the screening program did not indicate that the flows are affecting the quality of the waters of the United States. Thus, Abilene has no basis to conclude that any of the listed non-stormwater discharges are sources of pollutants to the waters of the United States.

The Stormwater Services Division works closely with the Abilene Fire Department (AFD) to address discharges or flows from fire fighting activities when they are identified as significant sources of pollutants. Stormwater schedules an annual meeting with AFD to review permit requirements and review fire fighting activities at sites where discharges were determined to be sources of pollutants. This meeting has helped build a cooperative relationship with Stormwater and AFD to reduce the pollutants entering the City's MS4.

By limiting the listed discharges to those not otherwise prohibited by an existing ordinance, Abilene will be able to prohibit or stop, on a case-by-case basis, any discharge that has the ability to pollute, or is polluting, the MS4. Two examples of the types of discharges prohibited by existing ordinance are as follows: (1) Section 15-2 of the Lake Ordinance, which makes it unlawful for any person to pollute in any manner, whether directly or indirectly, any lake under Abilene's ownership or control, including Abilene's MS4; and (2) Section 19-15, which expressly prohibits any person from causing, permitting, maintaining or allowing the creation or maintenance of a nuisance.

Finally, the Municipal Drainage Utility – Stormwater Protection ordinance broadly prohibits the illicit discharges and illicit connections. The ordinance states “No person may discharge or cause to be discharged any harmful quantity or any substance into the municipal stormwater drainage system that is not comprised entirely of stormwater” and “The construction, connection, use, maintenance or continued existence of any illicit connection to the municipal stormwater drainage system is prohibited”. The ordinance also provides for enforcement actions up to and including stop work orders, citations, and suspension of utility service for violators of the ordinance.

Program Schedule

These non-stormwater discharges are not currently prohibited, except on a case-by-case basis when they result in the introduction of pollutants to the MS4 or are deemed to be a nuisance. In addition, there are existing ordinances that allow the City to prohibit or stop these discharges on an individual basis when they do create pollution or a nuisance. Therefore, no additional action by the City is needed.

B. ELIMINATION OF ILLICIT DISCHARGE AND IMPROPER DISPOSAL

This section describes a program to eliminate illicit discharges that have been identified. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(B)(1) and Part III.B.2.c.vii of the City's TPDES permit.

Program Components

Once an illicit discharge, illicit connection, or improper disposal has been located and the responsible party identified, the City will implement the following procedures:

- A Stormwater Services Division representative will work with the responsible party to eliminate the illicit discharge within ten (10) days or early depending on case by case basis. If it is not feasible to achieve compliance within this time frame, the Stormwater Services Division representative will work with the responsible party to set a schedule to achieve compliance as expeditiously as possible. The schedule of compliance the Stormwater Services Division utilizes is dependent on the pollutant of concern, location of discharge, and imminent and substantial danger to the environment, health, or welfare of persons, the MS4, or waters of the United States. Each case is assessed based on the parameters of the illicit discharge/connection or improper disposal; therefore, the City does not have a set protocol for responding to these occurrences and will be considered on a case-by-case basis. However, the City does have the following procedures available through ordinance to facilitate the elimination of illicit discharges, illicit connections, and improper disposal.
 - Voluntary Compliance
 - Notice of Violation
 - Notice of Enforcement
 - Citation
 - Stop Work Order
 - Suspension of Utility Services (Water and Sanitary Sewer)
 - Assessment of Costs to the Violator if the City Conducts Remediation
- The City will utilize a variety of these procedures to assure that any illicit discharge, illicit connection, or improper disposal is eliminated expeditiously within 30 days of discovery stated in permit. The City will address illicit discharges that fail to achieve voluntary compliance in accordance with the appropriate ordinances and statutes.
- For illicit discharges requiring TPDES permits (TXR050000, TXR150000, or any other waste water permit), the Industrial Wastewater Manager (IWM) and/or the Stormwater Services Division representative will notify TCEQ, as appropriate.
- The City may also suspend utility service (water service, sanitary sewer, MS4 access) to a

facility or residence to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, health, or welfare of persons, the MS4, or waters of the United States.

- A list of techniques used for detecting illicit discharges is available in the MS4 Screening and Illicit Discharge Inspections section of this SWMP (ref: MCM 3.E).

Program Schedule

The City is currently investigating all reports of illicit discharges in accordance with the program identified above and we will continue throughout the term of the permit. The inspection form for the Industrial Pretreatment program has been revised to include stormwater inspection criteria. The inspection of industrial sites for illicit connections has been implemented.

C. OVERFLOWS AND INFILTRATION

This section describes a program to limit the discharge of pollutants to the MS4 as a result of sanitary sewer seepage. This program has been developed in compliance with 40 CFR §122.26 (d)(2)(iv)(B)(7) and Part III.B.2.c.viii of the City's TPDES permit.

Program Components

The City owns and operates a centralized sewer system that serves most of the wastewater needs within the service area of the MS4. The following program components are proposed to control pollutants discharged through the MS4 as a result of sanitary sewer seepage.

- Citizens will be encouraged to call the City when they observe water flowing in the streets during dry weather. The City will investigate these reports to determine if the flow contains wastewater or other pollutants. If the flow is determined to contain wastewater, a repair crew will be assigned to correct the problem. This program is discussed further in the section on "Public Education" (page # 35).
- The Distribution and Collection Superintendent will maintain records of any problems (eg: line breaks, line blockages, lift station malfunctions, etc.) identified.
- The City will clean sanitary sewer lines using high-water pressure cleaning equipment as part of a systematic infiltration and inflow control program. If there is a reason to believe the line has deteriorated, mobile camera equipment will be used to conduct visual inspections after the line is cleaned. The Sewer Collection Division conducts routine smoke testing procedures and also performs walk-alongs at interceptor routes in search of points of stormwater inflow or discharge and implements repairs as necessary.
- The City will replace or rehabilitate sewer components that are identified as being unreliable in accordance with priorities established by the City. The City has identified key points in the collection system used to divert a portion of peak flows from heavily loaded interceptors to interceptors having excess capacity to take the additional flows. This will assist in preventing wet weather overflows from the sanitary sewers into the MS4.
- The City completed a Sanitary Sewer Evaluation Survey. This included sanitary sewer collection system flow monitoring and development of computer based system hydraulic

modeling used to identify and evaluate flow and capacity characteristics of the collection system. Additionally, the City has completed the development of a Wastewater Collection System 2009-2030 Master Plan that includes projects to address system condition and capacity issues related to existing projected flow conditions.

- The Sewer Collection Division utilizes available manpower to monitor the collection system for stormwater related discharges and to identify stormwater inflow sources during heavy rainfall events. If a wet weather overflow is identified, corrective actions are immediately instituted to terminate or mitigate the discharge.
- The City will maintain a long-range planning process to ensure adequate system capacity is maintained as demands on the system grow through development. The City will review all development projects to determine potential impact on the wastewater collection system. System improvements will be constructed to meet the increased demands so the system's reliability is not negatively affected.

Program Schedule

The City is currently performing all aspects of the programs identified in this portion of the SWMP. The City will continue the existing programs described above during the term of the permit.

Performance Measures

The City will track the following performances annually during the term of the permit. It is anticipated that these performance measures may increase or decrease significantly from year to year in response to changing conditions.

- The number of miles of sanitary sewer cleaned.
- The number of miles of sanitary sewer inspected by remote cameras.
- The number and types of sanitary sewer rehabilitation projects completed. Upgrade projects may include lift station replacements, parallel sewer lines, or sanitary sewer diversions.
- The number of linear feet of sanitary sewer line replaced.

D. HOUSEHOLD HAZARDOUS WASTE AND USED MOTOR VEHICLE FLUIDS

This section describes an educational program to facilitate the proper management of used oil and toxic materials. This program has been developed in compliance with 40 CFR §122.26 (d)(2)(iv)(B)(6) Part III.B.2.c.ix of the City's TPDES permit.

Program Components

The primary objective of the program component is to minimize the potential contribution of pollutants to the MS4 as a result of the improper disposal of used oil and hazardous household wastes. Other potential contributors include the intentional disposal of collected quantities of grass clippings, leaf litter, and animal wastes. The following specific programs are included in this portion of the SWMP.

The City will administer the following household hazardous waste use/disposal programs:

- **Environmental Recycling Center** - The City's Environmental Recycling Center (ERC) operates a Household Hazardous Waste Unit. The Center, located at 2209 Oak Street, is open to the public Tuesday thru Friday 8:00am until 4:00pm and Saturday 8:00am until 12:00pm. The ERC is open to all private residents that reside within the City limits.

The ERC accepts all household materials, including vehicle wastes (e.g. oil, antifreeze, batteries, used oil filters, and tires), chemicals (e.g. paint, solvents, pesticides, herbicides, etc.). Abilene Brush Center (ABC) located at 2149 Sandy Street accepts leaves, grass clippings, tree limbs, and yard waste. In addition, Solid Waste Services operates the Citizen Convenience Center (CCC), alley bulk and brushy collection, and curbside bulk and brushy collection. These materials are collected for recycling, reuse, or are properly disposed, as appropriate. Wastes are disposed of through an authorized disposal contractor of the Center's Product Exchange Program.

- **Public Education/Publicizing** - The City incorporates information about household waste and vehicle fluid disposal in various public education efforts to include, the Keep Abilene Beautiful program and the Solid Waste Services' Environmental Recycling Program.

These public education efforts incorporate a wide variety of communication strategies to distribute messages. Examples include: published information (brochures), television public service announcements (radio, paper, and the City webpage), billboards, presence at trade shows, site tours, and public services (Business Collection Program).

Brochures offer detailed information about the benefits of proper handling of such substances and offer current information about all recycling points, along with the materials they accept. The City's Environmental Recycling Center is the primary recycling station drop off point; however, the City has other drop-off points located throughout the City.

- **Industrial Activity** – The City's Environmental Recycling Center has participated in the Multi-Sector General Permit program since 2006 as a sector N facility.
- **Fat, Oil & Grease (FOG) Program** - The City's Water Department implements FOG program to limit overflows of commercial & household food waste into MS4.

Performance Measures

The City will track the following performance measures annually during the term of the permit.

- Number of citizens utilizing the Environmental Recycling Center to dispose used motor oil and household hazardous wastes.
- Household hazardous material and floatables disposed of at the Environmental Recycling Center will be reported in tons.
- Number of citizens utilizing the Abilene Brush Center to drop off yard waste and vegetation.
- Number of routine proactive and compliant based restaurant site visits for Fat, Oil & Grease (FOG) inspections.

E. MS4 SCREENING AND ILLICIT DISCHARGE INSPECTIONS

This section describes a program to locate and identify illicit discharges to the MS4. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(B)(1) and Part III.B.2.c.x of the City's TPDES permit.

Program Components

The City has developed and implemented the following measures to identify illicit discharges.

- Illicit discharges, illicit connections, and improper disposals within the MS4 will be identified through the combined effort of five programs:
 - The City conducts a Dry Weather Screening Program for all of its storm water outfalls in conjunction with stormwater infrastructure proactive maintenance inspection. Twenty percent of the outfalls will be screened each year during the term of the permit, so that by the end of the permit term, all outfalls will have been assessed. The details, schedule, and performance measures for this program are discussed further in the MCM 8–Monitoring, Evaluation and Reporting (page # 41).
 - Citizens will be advised to call the Stormwater Services Division and/or the Water Department and report flowing water in streets or alleys during dry weather. The details, schedule, and performance measure for this program are discussed further in the section entitled "Public Education" (page # 35).
 - City employees will be educated and instructed on how to report any suspected illicit discharge, illicit connection, and/or improper disposal to the Stormwater Services Division.
 - The Stormwater Services Division will conduct inspections of industrial facilities, as part of the Industrial Facility Inspection Program, for illicit discharges, illicit connections and improper disposals. Additionally, the Industrial Waste Manager (IWM), or his representative, will inspect industrial facilities, which are part of the City's Industrial Pretreatment Program. The inspection report forms that the IWM uses have been modified to include an inspection for illicit discharges, illicit connections, and improper disposal. The Environmental Health Division also performs inspections on restaurants, swimming pools, grey water discharge, septic systems, and other facilities that have potential for illicit discharges, illicit connections, and/or improper disposal. Environmental Health Division staff have been educated and instructed on how to implement corrective actions for these situations. Water Department's Fats, Oil & Grease (FOG) Manager conducts inspections on grease traps and restaurants. City Marshals and Environmental Crimes Division handles illegal dumping issues and issuance of environmental crime citations. Solid Waste has an enforcement officer to deal with leaking dumpsters, inappropriate use of cans and flying debris from vehicles.
 - The City will evaluate the results of its storm water monitoring data for unusual characteristics that might indicate an illicit discharge, illicit connection, and/or improper disposal.

- If a potential illicit discharge, illicit connection, or improper disposal is identified, the IWM and/or a Stormwater Services Division representative will investigate the discharge. If the discharge is on the surface, such as in a street or an alley, it will be visually traced back to its apparent source. If the suspect discharge is located in a subsurface storm sewer, the investigator will investigate by opening manholes to visually inspect for the presence of flow. By inspecting manholes in the area, the search area for the illicit discharge, illicit connection, or improper disposal will be narrowed. Once a suspect discharge has been isolated to a particular portion of the storm sewer, the City may use a dye test or its television equipped sewer inspection truck to attempt to further locate the source of the suspect discharge.
- Samples of a suspect discharge may be collected to determine its origin and/or the pollutant of concern. A decision regarding whether or not testing should be performed will be made by the Stormwater Administrator after reviewing the specific situation encountered and prioritize on the basis of magnitude and the nature of the suspected discharge.
- Should an illicit discharge, illicit connection, or improper disposal be confirmed, the IWM or Stormwater Services Division representative will initiate corrective actions to eliminate the discharge. The process for eliminating the discharge is discussed in the section entitled "Elimination of Illicit Discharge" (page #14).
- Inventory of curb inlets and stenciling was completed in previous permit cycles. The City of Abilene continues to stencil new storm drain inlets throughout the City and retrofits existing storm inlets, as needed. Marking each stormwater inlet provides a measure of education to the public that stormwater flows directly to creeks and lakes; therefore, dumping into stormwater inlets directly pollutes water sources. This messaging proved to be effective prohibiting Waste placement or Dumping at the stormwater inlets.
- The City of Abilene produces and distributes pamphlets detailing impacts polluted stormwater run-off has on water quality, hazards associated with illegal discharges and improper disposal of waste, and methods to minimize their impact on stormwater quality. Reasonable effort is made to distribute the information to constituents within the City. The pamphlets educate residents, visitors, businesses, commercial and industrial facilities. Potential future article topics include: stormwater related water quality impacts; identification of actions citizens can take to reduce stormwater related impacts; announcements of stormwater and community clean up events; informational articles for citizens regarding illicit discharges and how to report them; and other stormwater related topics. These best management practices will raise public awareness to the need to reduce the discharge of pollutants. Targeted City groups will include residents, visitors, businesses, and commercial and industrial facilities.
- The City's Website (<http://www.cityofabilene.gov>) provides a link to Report a Problem where residents can submit complaints, review notices of code violations, or report other problems. The City's home page has a "Report A Problem" link that takes the user directly to the reporting page where they can submit a complaint. The City's webpage also provides a Stormwater hotline phone number, See Click Fix App, and Social media platforms for reporting problems requiring immediate attention.

Program Schedule

The City is currently enforcing its ordinances in accordance with the procedures identified above and will continue to do so during the term of the permit.

Performance Measures

The City will track the following performances annually during the term of the permit.

- The number of illicit connection/illicit discharges and illegal dumping investigations by various City Departments to include enforcement conducted.
- The number of illicit connections/illicit discharges eliminated.
- The number of sanitary sewer overflows investigated by the Water Department.
- The number of sanitary sewer related spills (over and under 500 gallons) investigated by the Water Department.

F. NPDES AND TPDES PERMITTEE LIST

This section describes a program to compile a list of discharges directly to the MS4 that have been issued an NPDES or a TPDES permit. The list shall include the name, location, and permit number (if known) of the discharger. This program has been developed in compliance with Part III.B.2.c.xii of the City's TPDES permit.

Program Components

The City has completed the compilation of the list of dischargers that discharge directly to the MS4 and have been issued an NPDES/TPDES permit.

Performance Measures

The City will track the following performances annually during the term of the permit.

- Addition or removal of any dischargers to the list, as appropriate.
- This list will be included in the Annual Report.

G. MS4 MAP

This section describes a program to maintain a current MS4 map that illustrates the location of all MS4 outfalls and waters of the United States that accept the drainage from these outfalls. This program has been developed in compliance with Part III.B.2.c.xiii of the City's TPDES permit.

Program Components

The City has implemented the MS4 map that details all known publicly owned MS4 outfalls and their receiving waters. The Stormwater Services Division has documented outfalls throughout the MS4 that include drop inlets, concrete flumes, surface drains, street culverts, and any other drainage conveyance deemed to be an outfall. The map also includes the waters of the United States that receive the water conveyed by these outfalls.

- The MS4 map was created by Stormwater personnel utilizing the City's ArcReader GIS

system. Initially, Stormwater maintenance staff was tasked with the identification of all drainage ways throughout the City. The information acquired from this survey was entered into a layer for the ArcReader system as well as into a database that Stormwater created that labels each outfall into a grid system. The database also includes an ID number, Location, Material (e.g. concrete, earthen, etc.), the size of the outfall and miscellaneous information. Once this information was entered the Stormwater Inspection and Permit Specialist and Stormwater Services Administrator performed an Outfall Reconnaissance Inventory (ORI) of each grid and the outfalls within to determine if each outfall met the definition of an outfall, ownership of the outfall (e.g. private, city, or TxDOT), and locate any outfalls missed in the initial survey. This ORI was completed in November 2011. For additional information on the Dry Weather Screening Program see MCM 8 – Monitoring, Evaluation and Reporting.

Stormwater will continuously update the MS4 map as new outfalls are built or modified into the MS4 system. To assure these new outfalls are added, the Stormwater Services Administrator works closely with Engineering Services and Planning and Zoning to receive information regarding new structures. Once notified of the new outfall, the Administrator will add it to the MS4 map and outfall database. More advanced systems such as MS4Web and Cartegraph will be kept in place to replace ArcReader GIS, to perform a better asset management and to track data efficiently and effectively.

- New MS4 Areas: The Stormwater Services Division will conduct a full review of all new areas (e.g. annexations) that are added to the MS4. Along with the physical inspection of all these areas, education brochures will be provided to new residents and business owners.
- Existing MS4 Areas: All existing portions of the MS4 have been evaluated per the requirements of this section. However, the City will continue to evaluate the program's "living" database and inspection schedule for completeness on a regular basis. The SWMP will be updated accordingly.

Program Schedule

The City is currently conducting all aspects of the MS4 Map requirements in accordance with the procedures identified above and will continue to do so during the term of the permit.

Performance Measures

The City will track the following performance measures annually during the term of the permit.

- The number of outfalls designated on the MS4 Map.
- The number of outfall inspections conducted.
- The number of detention pond inspections conducted.

I. SPILL PREVENTION AND RESPONSE

This section describes programs to encourage actions that will reduce spills and to provide appropriate responses when spills do occur. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(B)(4) and Part III.B.2.c.xiv of the City's TPDES permit.

Program Components

The following discussion identifies:

1. Spill Prevention Program
2. Spill Response Program.

1. SPILL PREVENTION PROGRAM

- The City will provide training regarding the City's plan for safe handling of chemicals to every city employee that works with chemicals or petroleum products. This training will be conducted as soon as reasonably possible when a new employee is hired. The Hazard Communication (HAZCOM) procedure and training are in compliance with the Texas Hazard Communication Act and are administered by the Risk Management Division of the Administrative Services Department. Employees working with, or near, potentially hazardous materials will receive additional training concerning the site-specific spill prevention plan for their facility. The site-specific training will be conducted annually.
- The Fire Marshal's Office administers a permit program that regulates entities that store or use hazardous materials; these permits must be renewed annually. This permit program is in conformance with Chapter 1 of the International Fire Code, as adopted by the City. The permit program has two major components that assist in the prevention of major spills:
 - Spill containment structures such as dikes and other secondary containment features must be constructed as part of any storage facility for hazardous materials.
 - The City Fire Inspectors will conduct on-site inspections of permitted facilities annually. During these inspections, the fire inspectors are primarily concerned with fire code violations. However, if the inspector observes a condition that could result in a water quality problem, the inspector will inform the IWM and the Stormwater Services Division of the observed conditions. The IWM or a Stormwater representative will coordinate with the operator of the facility to remedy the potential problem.
- In addition to the inspections of sites permitted to store or use hazardous materials, fire department personnel will inspect commercial business on an annual basis. If the fire department personnel observe hazardous materials on the site, they will inform the site operator and the Fire Marshal that a Fire Code permit is required for the facility per the International Fire Code.

2. SPILL RESPONSE PROGRAM

- In the event of a hazardous and/or toxic material spill, the first arriving officer from the City will monitor the spill status. If assistance is needed to determine the material or materials present in the spill, the Fire Department will contact the City's HAZMAT team, IWM and the Stormwater Services Division. The Fire Department will abate any immediate threats to human health and safety or the environment created by the spill.
- Once the immediate hazard has been abated, the Fire Department or IWM or Stormwater

Services Division will contact the TCEQ. The TCEQ will be responsible for directing the clean-up efforts at the site. The TCEQ will notify the EPA in accordance with federal regulations. If the spill occurs on state controlled right-of-way, the Fire Department or other designate will contact the Texas Department of Transportation (TxDOT), and TxDOT will be responsible for contacting the TCEQ.

- For spills that do not require TCEQ notification, (e.g. non-hazardous spills or spills below the regulated threshold amount) the Fire Department will contact the Stormwater Services Division. The Stormwater Services Division representative will identify the source of the spill and work with the responsible party to achieve clean-up through either voluntary action or enforcement proceedings provided for in Article VII. Municipal Drainage Utility – Stormwater Protection Ordinance.

Program Schedule

The City is currently performing all aspects of the programs identified and will continue the programs during the term of the permit.

Performance Measures

The City will track the following performance measures during the term of the permit.

- Number of employees receiving training related to the City's HAZCOM program.
- Number of Fire Code permits issued under Chapter 1 of the International Fire Code.
- Number of spills responded to and a brief description of the chemical(s) of concern, abatement actions, and if the spill had any effect on water quality.

MCM 4 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

A. POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM

This section describes a program for providing for the development and implementation of a pollution prevention and good housekeeping program for municipal buildings and operations. This program will be developed in compliance with Part III.B.2.d of the City's TPDES permit.

Program Components

The City has identified the following municipal facilities and operations that will be included in the Pollution Prevention and Good Housekeeping Program.

Municipal Facilities

- Covered under TPDES Stormwater Multi-Sector General Permit (MSGP). Pollution Prevention & Good Housekeeping is part of active Stormwater Pollution Prevention Plans (SWPPPs).
 - Abilene Regional Airport
 - CitiLink Facility (Public Transit)
 - Buck Creek WWTP
 - Hamby WWTP
 - Environmental Recycle Center

- Covered under Pollution Prevention & Good Housekeeping Program
 - Fleet Maintenance Facility
 - Stormwater Services Maintenance Yard & Storage Yard
 - Streets Maintenance Services Yard & Storage Yard
 - Traffic Engineering Facilities including Sign Shop & Traffic Signal Shop
 - Solid Waste Services Yards including Abilene Brush Center/Citizen Convenience Center, Refuse Collection Facility, and Container Maintenance Facility
 - Park Facilities
 - Rose Park Facility
 - Lee Complex Facility
 - Nelson Park Facility
 - Water Department Facilities
 - Northeast WTP
 - Hargesheimer WTP
 - Abilene Zoo
 - Maintenance Facilities of Facilities and Grounds
 - Custodial Storage Facilities

Municipal Operations

- Covered under TPDES Stormwater MSGP
 - Utilities Department Waste Water Treatment Plant Operations
 - Airport Operations
 - Solid Waste ERC Operations
 - CitiLink (Public Transit)

- Covered under Pollution Prevention & Good Housekeeping Program
 - Water & Waste Water Utilities Maintenance Operations
 - Streets Maintenance Operations
 - Stormwater Maintenance Operations
 - Solid Waste Abilene Brush Center/Citizen Convenience Center, and Container Maintenance Operations
 - Traffic Sign and Signal Operations
 - Fleet Maintenance Operations
 - Abilene Zoo Operations
 - Custodial Services Operations
 - Facilities Maintenance Operations

Pollution Prevention and Good Housekeeping is being implemented as part of the SWPPPs for City Facilities and Operations covered under MSGP. More details of these SWPPPs are discussed in MCM 5 (page # 28).

The City's Municipal Operations and Facilities that has potential to cover individually under the Pollution Prevention and Good Housekeeping Program include City Hall, few Undeveloped Parcels, Maintenance Facilities, Operations and Yards as listed above. Vehicle parking represents the primary activity exposed to storm water at City Hall. No activities occur on the few undeveloped parcels. City Hall and undeveloped parcels were considered to present little potential for storm water impact. The Maintenance Yards and Facilities conduct vehicle refueling, vehicle maintenance, vehicle wash, and solid waste recycling operations among other activities. Storage and specific operational maintenance represent potential stormwater impacts at these facilities. These municipal operations were considered not requiring coverage under MSGP. Therefore a SWPPP was determined to be unnecessary. In order to maintain and help promote stormwater quality awareness, the City has completed a comprehensive city-wide Pollution Prevention and Good Housekeeping Handbook for above mentioned City buildings and municipal maintenance operations. Stormwater Best Management Practices (BMP) Fact Sheet is distributed by the City Stormwater Division to involved staff.

Additionally, for each necessitated facility and operation listed above, the City prepared an addendum and an inspection that outlines specific pollution prevention and good housekeeping measures to reduce the discharges of pollutants to the maximum extent practicable.

Included in this program, the City provides training for City employees at these identified facilities and those employees that are involved in the designate municipal operations, as needed.

Program Schedule

The City completed the development and implementation of the program identified above. A comprehensive Pollution Prevention and Good Housekeeping Handbook, addendums and inspections will continue to be implemented.

Performance Measures

The City will track the following performance measures during the term of the permit.

- Number of City of Abilene facilities that are covered under industrial Permit and subject to the Pollution Prevention and Good Housekeeping Program through individual SWPPPs.
- Number of City of Abilene facilities subject to the Pollution Prevention and Good Housekeeping Program.
- Number of City of Abilene operations covered under individual Industrial Permits.
- Number of City of Abilene operations subject to the Pollution Prevention and Good Housekeeping Program.
- Number of inspections and training activities conducted.

B. WASTE HANDLING

The proper disposal of waste removed from the MS4 and/or from other municipal operations has been included in the Pollution Prevention and Good Housekeeping Handbook. Specific waste removal requirements for each location identified above were included in Handbook and each sites addendum meeting the industry and TCEQ standards.

C. PESTICIDE, HERBICIDE, AND FERTILIZER APPLICATION

This section describes a program for controlling discharges of pesticides, herbicides, and fertilizers to the MS4. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(A)(6) and Part III.B.2.d.iii of the City's TPDES permit.

Program Components

In the State of Texas, the primary responsibility for regulating application of pesticides and herbicides by commercial applicators has been reserved by the State. The State Legislature has enacted legislation prohibiting cities from directly regulating the use of pesticides and herbicides by commercial companies or individuals. Given the breadth of the state regulations and the legislative constraints, the following specific program components are included in the SWMP. The City will include controls to reduce the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers in the Pollution Prevention and Good Housekeeping Handbook as well as the Pesticide, Herbicide, and Fertilizer Application Guideline.

- The City will ensure that staff members applying pesticides and herbicides are properly licensed by the state during the term of this permit.

- The City will minimize the amount of fertilizer used on municipal grounds by basing the application rates on periodic soil tests to determine the minimum amount of fertilizer required.
- The City will integrate information about the proper use of pesticides, herbicides, and fertilizers into the Water Department's XERISCAPE program. Coalitions have been developed with local gardening clubs, the County's Master Gardener Program, the Taylor County Extension Office, and nursery owners to increase public exposure to XERISCAPE principles.
- The City of Abilene's Environmental Health Division and Parks Division are in compliance with TCEQ's Pesticide General Permit TXG870000.

Program Schedule

The City is currently performing all aspects of the Pesticide, Herbicide, and Fertilizer program and will continue the programs during the term of the permit.

Performance Measures

The City will track the following performances annually during the term of the permit.

- Number of City employees licensed by the state to apply pesticides and herbicides.

MCM 5 – INDUSTRIAL AND HIGH RISK RUNOFF

This section describes a program to control the potential contribution to the MS4 of pollutants from hazardous waste sites and industrial facilities. Industrial Facility Inspection Program has been developed and is being implemented in compliance with 40 CFR §122.26(d)(2)(iv)(C)(1) and (2) and Part III.B.2.e of the City's TPDES permit.

Program Components

The following specific program components are included in this portion of the SWMP.

- There are no operating municipal landfills within the City at this time; however, there are three properly closed landfills within the service area of the MS4. These facilities were inspected during the preparation of the Part 2 application. This inspection concluded that the facilities did not contain any exposed material that might discharge pollutants to the MS4. The Stormwater Services Division re-inspects these facilities annually to ensure that this condition does not change. If these inspections reveal any potential problems, the City will develop a management plan and remediation program to address the identified condition following the inspection.
- The City will conduct annual inspections of all industrial facilities subject to the reporting requirements of the Superfund Amendment and Reauthorization Act of 1986 (SARA), Title III, Section 313 located within the service area of the MS4. The SARA facilities that are subject to the City's Industrial Wastewater Pretreatment Program will be inspected annually by the IWM. The IWM has the authority to inspect the entire premises and identify conditions that could result in the discharge of pollutants through storm water runoff. The Stormwater Compliance Specialists will conduct annual inspections of all SARA Title III sites to identify and control pollutants in stormwater discharges to the MS4. SARA Title III sites subject to the MSGP requirements will be inspected in accordance with the associated permit.
- The City has not identified any other industrial facilities that are contributing a substantial pollutant load to the MS4 but conducts routine inspections on the industrial facilities in the MS4 region in accordance with priorities, procedures, risk level, pollutants of concern and an identified living schedule. In addition, the City initiated a High-Risk Runoff Facility Inspection Program in this permit term to inspect high-risk facilities such as fire stations, laundry facilities, and gas stations. The Stormwater Services will develop this program in the first year of this permit term, implement the program and inspect these facilities over next four years of the permit term. If, in the future, the City determines one or more industrial sites are contributing a substantial pollutant load, an appropriate inspection and/or monitoring program will be developed.
- The City has adopted an ordinance and implemented a program requiring all hazardous waste treatment and storage facilities, active municipal landfills, SARA Title III, Section 313 industries, and other industrial facilities the City has determined contribute a substantial pollutant load to the MS4 to self-monitor storm water runoff and provide the results to the City. The details, schedule, and performance measure for this program are included in the section on "Monitoring" (Ref: MCM #8 on page # 41).

- The City will maintain a list of hazardous waste and industrial storm water dischargers monitored and/or inspected pursuant to the SWMP. Dischargers listed will include hazardous waste treatment and storage facilities, active municipal landfills, SARA Title III, Section 313 industries, and other industrial facilities the City has determined may contribute a substantial pollutant load to the MS4. This list will be updated as necessary.
- If the City becomes aware of any industrial facility that is potentially discharging storm water in violation of federal regulations or laws, the City will notify TCEQ. Additionally, if industries within Abilene's MS4 service area are unsure if their stormwater discharges are subject to the NPDES/TPDES program, the City will refer the industries to the EPA/TCEQ in order to resolve any questions.
- The City may accept a “no exposure” certification from a Type 1 or Type 2 facility in lieu of monitoring. The facility must confirm in the “no exposure” certification that industrial activities and/or industrial materials are not exposed to stormwater and are not expected to be exposed to stormwater for the certification period. The MS4 operator will conduct site inspections of these facilities at a minimum of once per permit term. The City will maintain a list of any facility meeting the “no exposure” requirement.
- The City may waive monitoring requirements, per the TPDES permit Part III.B.2.h.iii.(F), for facilities the City determines to be in compliance with TPDES Multi-Sector General Permit No. TXR050000. The City will maintain a list of any facility meeting this requirement.

Program Schedule

The City will inspect closed landfills annually. All facilities subject to the TCEQ’s MSGP TXR050000 will be inspected at a minimum of once per permit term. SARA Title III Section 313 industries will be inspected at least once per year during the term of the permit. The inspections are documented in MS4 Web Software. A list of hazardous waste and industrial storm water dischargers monitored and/or inspected pursuant to the SWMP has been compiled and is being utilized in inspection(s) scheduling.

Performance Measures

The following performance measures will be tracked annually during the term of the permit.

- The number of industrial facility brochures distributed to facilities subject to the MSGP and other targeted individuals.
- The number of SARA Title III, Section 313 facilities inspected by the Stormwater Services Division, and a description of actions taken in response to the identification of conditions that could result in the discharge of significant pollutants to the MS4.
- The number of inspections conducted at closed landfill facilities by the Stormwater Services Division.
- The number of inspections conducted at industrial facilities by the Stormwater Services Division.

- The number of high-risk facility inspections conducted at high-risk facilities by the Stormwater Services Division.
- The number of inspections conducted at “no exposure” facilities by the Stormwater Services Division.
- The number of new Notice of Intent’s received.
- The number of No Exposure Certifications received.
- The number of Enforcement Actions taken.

MCM 6 – CONSTRUCTION SITE STORM WATER RUNOFF

This section describes a program to limit the discharge of pollutants from construction sites into the MS4. This program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(D) and Part III.B.2.f of the City's TPDES permit.

Program Components

The City's Construction Site Stormwater Runoff section consists of the following components:

- A. Erosion and Sedimentation Control
- B. Waste Control
- C. Inspections and Enforcement
- D. Training, Education, Notification for Construction Site Operators, Site Plan Review, and Public Input

A. EROSION AND SEDIMENTATION CONTROL

- The City's Municipal Drainage Utility – Stormwater Protection Ordinance states the introduction of sediment, concrete, asphalt, or any other construction debris into the MS4 is a violation of the ordinance and will be subject to enforcement activities.
- The City's Subdivision Ordinance requires all construction involving significant disturbances of land must comply with Drainage Standards. For projects not subject to the subdivision ordinance, the Floodplain Administrator may require compliance with the Drainage Standards prior to the issuance of a building permit or a Floodway Development Permit. The Drainage Standards include the following specific guidelines:
 - Sediment shall not be conveyed into improved drainage facilities, public rights-of-way, or onto adjacent property as a result of construction.
 - Specific sediment controls must be identified for all residential developments of two or more acres and all commercial or industrial developments of one-half acre or more.
 - Specific sediment control practices, which may be required, include sediment barriers, storm drain inlet protection, detention basins, flow diversions, temporary seeding and mulching, and soil stabilization.
- The Drainage Standards include specific requirements for construction site operators concerning erosion and sedimentation controls for projects within the City. The City will continue to update the Drainage Standards as needed to provide guidance to site operators on improved methods or technology as new information becomes available to the City.

B. WASTE CONTROL

- The City Building Code and the Municipal Drainage Utility Ordinance include provisions prohibiting litter at construction sites. Appropriate enforcement measures will be taken during the term of the permit.
- The program will provide educational assistance to area contractors in the development of litter prevention, clean-up programs, and concrete wash out for construction sites. Contractors will be made aware of this resource through Compliance Specialists during inspections and through electronic media by the Stormwater Services Division. Developers and Contractors will get the information through pamphlets and materials available on City's website.

C. INSPECTIONS AND ENFORCEMENT

- The City's Municipal Drainage Utility Ordinance provides the Stormwater Services Division the authority to review Stormwater Pollution Prevention Plans (SWP3) and associated Best Management Practices (BMPs). This authority also requires the facility operator to amend the SWP3 and/or BMPs as necessary to prevent the introduction of pollutants to the MS4.
- All construction sites within the service area of the MS4 will be subject to inspection by City staff. Stormwater maintains a list of construction sites that discharge directly to the MS4 and meet the requirements of the TPDES permit. Additionally, Stormwater maintains a list of construction sites that don't meet the TPDES permit requirements (<1.0 acres and not part of a larger common plan of development) but have a high probability of discharging pollutants to the MS4. The City has the authority to inspect these sites and require BMP's and good housekeeping measures if deemed necessary, per City ordinance. Stormwater Services Division tracks these inspection through MS4 Web Software.
- A person commits an offense if the operator of a construction site fails to submit a copy of the Notice of Intent or Construction Site Notice, when applicable.
- If an inspector observes a potential problem that might result in the discharge of pollutants to the MS4, the inspector has the following remedies available.
 - Work with the contractor to achieve voluntary compliance.
 - Issuance of a Stop Work Order.
 - Bring monetary enforcement actions for any violations of the City Code.

D. TRAINING, EDUCATION, NOTIFICATION FOR CONSTRUCTION SITE OPERATORS, SITE PLAN REVIEW AND PUBLIC INPUT

- The City has produced written material describing the City's policies and TPDES requirements concerning water quality controls at construction sites. These materials are distributed to developers and contractors when site plans or building permit applications are submitted. Additionally, the City of Abilene makes these documents, along with other

stormwater quality texts, available to the public in a kiosk located in the City Hall.

Notice has been placed on the “New Commercial Building (form B-12A)” and the “New Single Family Building Permit (Form B-1)” to notify building permit applicants of the requirements for the submittal of a Notice of Intent or Construction Site Notice. Stormwater has also included in the City of Abilene’s Building Permit Application the following statement that must be signed for when a permit is requested.

I hereby certify that I will adhere to City Ordinance (Article VI. Municipal Drainage Utility – Stormwater Protection) and the Texas Commission on Environmental Quality’s Texas Pollutant Discharge Elimination System permit TXR150000 during construction activities, if applicable. Erosion control will be implemented to assure prevention of soil and other construction debris from entering City of Abilene streets and water conveyances, as required by City Ordinance.

- The Stormwater Services Division is a member of the City’s Site Plan Review Committee and reviews all commercial property site plans submitted to the City to determine if the site(s) meets the requirements of TPDES TXR15000. Once a determination has been made whether the site is subject to permitting, the Stormwater Services Administrator will provide, if applicable, detailed written documentation to the developer regarding their requirements under TPDES TXR15000. The whole permitting process is electronically tracked and monitored through MyGOV system (<https://web.mygov.us/login/>). The Site Plan Review process is kept in place by Ordinance with identified roles and responsibilities, proper protocols to garner public input, grant waivers, and variances. The City handles appeals through City Administration, the Planning Commission Board and the City Council.
- The Stormwater Services Administrator performs review of all subdivision construction plans submitted to the City through the Engineering Division. Most local engineering firms, contractors, and architects are knowledgeable of the City’s and State’s stormwater requirements and put a statement regarding how they will meet the City ordinance and TPDES stormwater construction site requirements. The City Engineer/Flood Plain Administrator will provide, if applicable, detailed written documentation to the developer regarding the flood plain development requirements. Drainage plans and flood development permits, if required for the development are approved by Engineering Division. If no notice is located on the subdivision plans the Stormwater Services Administrator will require that a statement is placed on the plans that notate these requirements.
- The Stormwater Construction Site Inspector performs construction site stormwater runoff education to builders, contractors, and developers new to Abilene. If the inspector arrives on-site and determines that the builder, contractor, or developer are not familiar with the TPDES TXR150000 program, they are provided with documentation to explain the program and answer any questions that may arise during the initial inspections.
- The City has developed a program that includes Construction Site Stormwater Runoff Prevention Inspection Guidelines, inspections forms, and Notice of Violation/Notice of Enforcement forms to be utilized during construction site inspections.

Program Schedule

The City is currently performing all aspects of the programs identified in this portion of the SWMP.

The City will continue the existing programs during the term of the permit.

Performance Measures

The following performance measures will be tracked annually by the City of Abilene during the term of the permit.

- The number of contacts made by City of Abilene with area developers, builders and contractors to distribute materials and educate on construction program and requirements.
- The amount of informational materials distributed on construction site water quality controls, as reflected by the number of building permits issued.
- The number of NPDES and TPDES Notice of Intent (NOI), Notice of Change (NOC), and Notice of Termination (NOT) for each general permit.
- The number of Construction Site Notice (CSN) received from small construction site operators seeking coverage for stormwater discharges.
- The number of inspections conducted at construction sites.
- The number of enforcement actions taken.

MCM 7 – PUBLIC EDUCATION AND OUTREACH AND PUBLIC INVOLVMENT AND PARTICIPATION

The City of Abilene has included public education activities as components of several SWMP programs. A brief description of these activities appears with each of the individual SWMP programs. Additional information concerning these activities, as well as a schedule and performance measures are included in this section to provide a comprehensive view of the City's public education program. The combined public education program has been developed in compliance with 40 CFR §122.26(d)(2)(iv)(A)(6), 40 CFR §122.26(d)(2)(iv)(B)(5) and (6) and Part III.B.2.g of the TPDES permit.

Program Components

The City's public education and outreach program and activities are conducted in a matrix approach with targeted MCM's, pollutants, and audience. This program ensures coverage of community-wide issues and outreach to maximum number of people in diverse groups. The City's public education activities consist of the following components:

- A. Public Reporting of Illicit Discharges or improper disposal
- B. Litter (Floatables) Control
- C. Used Oil and Household Hazardous Waste
- D. Pesticides, Herbicides, and Fertilizer Management

A. PUBLIC REPORTING OF ILLICIT DISCHARGES

The City of Abilene will perform the following public reporting of illicit discharges and improper disposal public education efforts.

- The City will operate a 24-hour service line that citizens can use to report any water related issue, including suspected illicit discharges. This service is provided by the Stormwater Division. It includes Stormwater Hotline during working hours and Stormwater On-call Line after hours, weekends and holidays.
- The City will promote the use of the 24-hour service line through the inclusion of a one line message on City of Abilene Water utility bills. The phone number for the service line will be included in the message. These messages will be included on utility bills at least one time per year.
- The City will develop public service announcements (PSA's) available on the City's Channel 7, website, and other social media outlets. At least two announcements will be prepared each year. The PSA's for the current permit term include: general stormwater pollution, pet waste, street sweeping, litter control, household hazardous waste, pesticides, herbicides, and fertilizers, and the reporting the illicit discharge of these pollutants. To kick off these series of PSA's the City will run a PSA that illustrates the stormwater grid of the MS4.
- The City has developed a series of water quality brochures that emphasize non-point source pollution issues, including public monitoring of illicit discharges. Brochures will be printed, as needed, for distribution at civic club presentations, City offices, and public

environmental events. These brochures include but not limited to: Generic Stormwater Quality; Stormwater Programs; Illicit Discharges; New Construction Sites; Industrial Facilities; Pesticide, Herbicide and Fertilizers; Concrete Washout; Construction Waste; Grass Clippings; Pet Waste; Mobile Washing; Spill Prevention and Response; Antifreeze, Automotive Leaks and Repair; BMP's for Restaurants and Food Establishments; Charity Car Wash; Stormwater Ponds; Swimming Pool and Spa; Hazardous Substances.

- To reinforce the non-point source control message, billboard advertising will be obtained. Approximately four months will be obtained per year to advertise various signs.
- The Stormwater Services Division annually provides cell phone wallets with a stormwater message on it to local schools. These wallets provide the hotline number and general stormwater email address to report illicit discharges.
- To reach visitors to Abilene, Stormwater will work with the Abilene Convention & Visitors Bureau to provide bookmarks and other paraphernalia with stormwater information. Each year the Abilene Convention and Visitors Bureau distributes "goodie bags" to visitors via conventions or other business meetings in Abilene.

Program Schedule

The City is currently performing, or will be performing by the end of the first year of the current permit term, all aspects of the programs identified in this portion of the SWMP. The City will continue the existing programs during the term of the permit.

Performance Measures

The following performance measures will be tracked annually by the City of Abilene during the term of the permit.

- The number of notices mailed to citizens on water bills.
- The number of public service announcements provided to the media.
- The number of water quality brochures distributed.
- The number of billboard messages displayed and the duration of each display.
- The number of cell phone wallets provided to the schools and other stormwater paraphernalia distributed.
- The number of bookmarks distributed through the Abilene Convention & Visitors Bureau.
- The number of brochures and materials distributed to targeted audience and citizens.

B. LITTER (FLOATABLES) CONTROL

The City of Abilene continues to implement the following Litter (Floatables) Control programs

- Adopt-A-Street/Adopt-A-Creek/Adopt-A-Spot: The Stormwater Services Division developed the Adopt-A-Street/Adopt-A-Creek program. In the past, KAB had the Adopt-A-Spot program in Abilene; however, financial restraints kept the program from thriving. Therefore, Stormwater decided to develop the Adopt-A-Street/Creek programs, integrate Adopt-A-Spot program and partner with KAB. Groups who adopt a local street, spot, or creek pledge two years of their time (four times a year) to conduct cleanups at local streets and creeks. Each group that participates will get a sign installed at their location notating an Adopt-A-Street/Creek/Spot area and the name of the responsible entity for the location. The Solid Waste Services Division picks up the trash bags at a determined location after each clean-up event.
- Teen Court and Service hours: The Stormwater Services Division has developed an agreement with the City of Abilene's Municipal Court Division to assist in providing teens with various violations an opportunity to complete community service hours. Municipal Court provides the teen with options for community service including conducting trash clean-up on local streets and/or creeks. The teen is responsible for contacting the Stormwater Education Coordinator for locations and, after completion, the teen will let Stormwater know how many bags were collected for proper disposal.
- Work Again West Texas Program: Stormwater Education Coordinator assigns litter pick-up or cleanup activities to Work Again West Texas (WAWT) Organization. WAWT has employees working for them through grant funding to accomplish litter pick up in a timely manner.
- Floatable Monitoring: The City monitors floatables within the MS4 by evaluating the combined amount of material collected from drainage ways as a result of various litter control and stream maintenance programs identified in the SWMP. The Keep Abilene Beautiful Coordinator conducts a Photometric Index Survey annually to aid in gauging success of litter abatement programs. Per TPDES Permit No. WQ0004692000, the City of Abilene has two floatable monitoring locations and four underpass locations for removal of floatable materials in stormwater discharge to or from the MS4. The material from these monitoring locations is expected to be collected at a minimum of twice per year.

Program Schedule

The City is currently performing all aspects of the programs identified in this portion of the SWMP. The City will continue the existing programs during the term of the permit.

Performance Measures

The following performance measures will be tracked annually by the City of Abilene during the term of the permit.

- The number of Adopt-A-Street, Adopt-A-Spot, Adopt-A-Creek locations.
- The number of teens participating in the Teen Court Program; the number of hours service received; and the number of bags of litter picked up and disposed after a collection event.
- The number of bags of litter picked up by Work Again West Texas Program.

- The amount of material collected from the two floatable monitoring and four underpass locations.

C. USED OIL AND HOUSEHOLD HAZARDOUS WASTE MANAGEMENT

The City of Abilene will perform the following household hazardous waste use/disposal public education efforts:

- Keep Abilene Beautiful includes household waste and vehicle fluid disposal in its various public education efforts (e.g. Don't Mess with Texas Trash Off, trade shows, public presentations, etc.). KAB regularly utilizes all media venues, including published information, television public service announcements, billboards, presence at trade shows, and public presentations to distribute its message.
- The City incorporates information about household waste and vehicle fluid disposal in its various public education efforts, through the Keep Abilene Beautiful program, and the Solid Waste Services' Environmental Recycling Program.
- These public education efforts incorporate a wide variety of communication strategies including; published information (e.g. brochures), television public service announcements (e.g. radio, paper, and the City webpage), billboards, presence at trade shows, site tours, and public services (e.g. Business Collection Program).
- Brochures offer detailed information about the benefits of proper handling of hazardous substances and offer current information about all recycling points along with the materials they accept. The City's Environmental Recycling Center is the primary recycling station drop off point; however, the City has 8 other drop-off points located throughout the City.

Program Schedule

The City is currently performing all aspects of the programs identified in this portion of the SWMP.

The City will continue the existing programs during the term of the permit.

Performance Measures

The following performance measures will be tracked annually by the City of Abilene during the term of the permit.

- The number of Used Motor Oil and Household Hazardous Waste brochures distributed.
- The number of public contacts concerning household hazardous waste. Public contacts include but not limited to: citizens utilizing the ERC's for used motor oil and/or household hazardous waste, presentations to civic organizations, fliers, and brochures.

D. PESTICIDE, HERBICIDE, AND FERTILIZER MANAGEMENT

The following Pesticide, Herbicide, and Fertilizer Management programs have been implemented by the City of Abilene.

- The Water Department integrates detailed information about the proper use of pesticides, herbicides, and fertilizers, into the Water Department's XERISCAPE program. This program continues to receive considerable community support as word gets out about the benefits of creative landscaping and maintenance tailored to the unique needs of the West Texas area.
- Coalitions are being developed by the City with local gardening clubs, Master Gardener Programs, and local nursery to increase public exposure to XERISCAPE as a community strategy to maximize efficient use of water while minimizing potential for non-point source pollution from excess application of lawn chemicals. Stormwater will utilize these coalitions to educate the community on the proper use, application, and disposal of pesticides, herbicides, and fertilizers.
- The Stormwater Services Division has developed Fertilizers and Pesticides – Clean Water Fact Sheet that is readily available to the public via the City's Stormwater webpage and in a kiosk located in the City Hall. Stormwater also provides cellphone wallet covers to the Abilene Independent School District that provides information to report improper disposal of pesticides, herbicides, and fertilizers.
- The Stormwater Services Division conducts the following education programs to assist City of Abilene employees and Abilene citizens better understand the use of pesticides, herbicides and fertilizers.
 - Distribution of PHF educational material such as pamphlets, brochures, and other texts to customers, PHF applicators, and employees.
 - Conduct interviews and inspections with City staff that are PHF applicators regarding the proper use, application, and disposal of pesticides, herbicides, and fertilizers.

Program Schedule

The City is currently performing all aspects of the programs identified in this portion of the SWMP. The City will continue the existing programs during the term of the permit.

Performance Measures

The following performance measures will be tracked annually by the City of Abilene during the term of the permit.

- The amount of Pesticide, Herbicide, and Fertilizer material distributed to local businesses and citizens.

E. PUBLIC INVOLVEMENT AND PARTICIPATION

To meet the conditions of this portion of the SWMP the City of Abilene will fulfill the requirements of the permit application renewal process which requires the submitting of public notice in local newspapers in English and Spanish. This process complies with State, Tribal, and local public notice requirements and allows local citizens the opportunity to review the City's Stormwater Management Program, TPDES permit, application information, and provide public comment(s).

Additionally, the City of Abilene posts its SWMP on the Stormwater Services Division's website with a statement that encourages citizens of Abilene to contact the City if they have any questions, comments, or concerns with the SWMP. The City provides required notice of all public meetings, Keep Abilene Beautiful Board meetings and adoption of new or modified ordinances as part of the planning and implementation of public involvement and participation program. The City maintains communication via local television channels, social media platforms and news stories. In addition, the City conducts events to engage and enhance public involvement and participation. The City also provides app links, a reporting area on the City website and phone number(s) for residents to submit complaints and report violations. The residents are informed of the complaint submission process through different communication channels. Educational materials on the value of submitting complaints and type of things to look for that may impact water quality shall be prepared and advertised to public.

MCM 8 – MONITORING, EVALUATION AND REPORTING

The City of Abilene has included monitoring activities as components of several SWMP programs. A brief description of these activities appears with each of the individual SWMP programs. Additional information concerning these activities, as well as schedules and performance measures, are included in this section to provide a comprehensive view of the City's monitoring program. The overall monitoring program has been developed in compliance with 40 CFR §122.26 (d)(2)(iv)(A)(1), 40 CFR §122.26(d)(2)(iv)(B)(1) and (2), 40 CFR §122.26 (d)(2)(iv)(C)(2) and Part III.B.2.h of the TPDES permit. It should be noted that the monitoring programs discussed below are in addition to the continuing monitoring of MS4 runoff quality required by 40 CFR §122.26 (d)(2)(iii)(D).

Program Components

The City's monitoring program consists of the following components:

A. DRY WEATHER SCREENING PROGRAM

The City conducts a dry weather screening program for all of its stormwater outfalls at least once during the permit term to detect the presence of illicit connections and improper discharges to the MS4. Twenty percent of the outfalls will be screened each year during the term of the permit so, by the end of the permit term all outfalls will be evaluated.

The City of Abilene has completed its field verification and GIS mapping of subject outfalls to be inspected for the Dry Weather Screening Program. The City has identified 595 outfalls for inspection. Since no significant illicit connections or improper discharges were identified in previous permit term inspections modified screening methods will be used in current term. These revised methods will be based on experience gained during previous field screening activities. The dry weather screening consists of a visual inspection of each identified outfall by a Stormwater Operation Technician as well as the recording of observations on a field data sheet including qualitative parameters along with the structural integrity of the stormwater structure. If the inspector observes water flowing, the inspector will note the following characteristics: odor, color, clarity, floatable material, deposits and stains, vegetation condition, structural condition of outfall, and biological information. If it is determined that the flow contains contaminants, the Compliance Specialist may obtain a sample for laboratory analysis to be performed per Part V, Section B.2 of the City's TPDES Permit. The parameters to be analyzed will be determined on a case-by-case basis. If warranted, the Stormwater Staff will investigate the flow in accordance with the methods previously identified for illicit discharges. Any structural deficiencies identified will be forwarded to the Stormwater Maintenance Supervisor to be scheduled for repair or replacement.

B. WET WEATHER SCREENING PROGRAM

The City conducts a wet weather screening program for its MS4. Due to the extent of surface drainage within the MS4, City road and stormwater crews are dispatched to numerous low water crossings during moderate to heavy rainfall events. The crews monitor the level of water in area creeks and close roadways when they become impassable. During their visual inspections, these crews will observe the physical character of the flow in the curbs, ditches,

and creeks. If the crews observe any indicators of gross pollution, they will contact a Stormwater Services Division representative who will investigate the flow in accordance with the methods previously described for illicit discharges. The Wet Weather Screening Program compliments the Storm Event Discharge Monitoring. Combined data from both the programs is used to develop watershed protecting measures and additional watershed improvement projects, if any needed in the MS4 region.

C. INDUSTRIAL AND HIGH RISK RUNOFF MONITORING PROGRAM

The City has adopted an ordinance requiring that certain industries within the MS4 service area provide the City with self monitoring results for one runoff event per year. The industries required to conduct the self monitoring include: active municipal landfills; hazardous waste treatment, storage, and disposal facilities; industries subject to the reporting requirements of SARA Title III, Section 313; and any other industry the City believes is a significant contributor of pollutants to the MS4. These industries will be required to monitor in accordance with Part III. B.2.h.iii.(A), (B), (C), (D), (E) and (F) of the City's MS4 permit. The City shall review the quantitative data collected by a facility on parameters which have been identified as a pollutant of concern for that facility per State and Federal permit authorization rather than performing additional sample collection and analysis. In this case, the Industrial Facility Inspection Program is implemented identifying the facility, risk level and an inspection schedule which is discussed in MCM 5 (page #28).

The City has not identified any other industrial facilities contributing a substantial pollutant load to the MS4. However, in addition to Industrial Inspection Program, the City is working to establish a High-Risk Runoff Facility Inspection Program during this permit term to inspect facilities such as fire stations, laundry cleaning facilities, and gas stations. The Stormwater Services will develop this program in the first year of this permit term. Thereafter Stormwater Services will implement the program and inspect these facilities over the remaining four years of the permit term. If, in the future, the City determines that one or more industrial sites are contributing a substantial pollutant load, an appropriate inspection and/or monitoring program will be developed.

D. STORM EVENT DISCHARGE MONITORING

The City of Abilene conducts Option 1: *Representative Monitoring* in accordance with Part IV, Section A.1. The City will continue to follow the requirements of Part IV, Section A.1 through this permit term. The monitoring outfall locations are as follows:

Outfall 001, located at Cedar Creek where Interstate Highway 20 crosses Cedar Creek, and

Outfall 002, located at Catclaw Creek where Ambler Avenue crosses Catclaw Creek.

The City shall accomplish wet-weather discharge sampling and submit electronic DMRs at both the representative outfall structures (i.e. Cedar & Cat Claw Creeks) for the permit term.

E. FLOATABLES MONITORING

The City monitors floatables within the MS4 by evaluating the combined amount of material collected from drainage ways as a result of various litter control programs. The Keep Abilene Beautiful Coordinator conducts a Photometric Index Survey annually to aid in gauging success

of litter abatement programs. Per the Permit terms, the City of Abilene maintains two outfall locations and four underpass locations for the removal of floatable material and debris before stormwater is discharged to or from the MS4. These monitoring locations are maintained and material is collected at a minimum of twice per year. Stormwater will include in the MS4 Annual Report to the TCEQ the amount of material collected by weight, volume, or other practical means at these locations.

Program Schedule

The City is currently performing all aspects of the programs identified in this portion of the SWMP. The City will continue the existing programs during the term of the permit.

Performance Measures

The following performance measures will be tracked annually by the City of Abilene during the term of the permit.

- The number of subsurface outfalls screened and the results of the screening.
- The number of wet weather screening events and the results of the screening.
- The number of industrial facilities conducting self monitoring will be reported if any sites are required to conduct self-monitoring.
- Storm Event Discharge Monitoring information Discharge Monitoring Reports (DMR's) are submitted electronically.
- The amount of floatables captured at the Floatable Monitoring locations.