

City of Bryan

Storm Water Management Program



CITY OF BRYAN
The Good Life, Texas Style.™

Prepared in accordance with TPDES General Permit TXR040000

February 8, 2008

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Texas Commission on Environmental Quality
Applications Review & Processing Team (MC 148)
12100 Park 35 Circle
Austin, Texas 78753



Re: NOI & MS4 Permit
Bryan, Texas

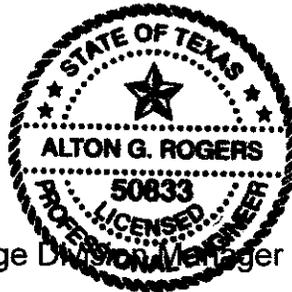
Dear Sirs:

Enclosed for your review is the original and one (1) copy each of the Notice of Intent (NOI), Storm Water Management Program (SWMP) Cover Sheet and SWMP from the City of Bryan, Texas. The SWMP was prepared in accordance with the TPDES Phase II MS4 General Permit (TXR040000).

I trust the SWMP submitted meets the requirements as set forth. If you have any questions, please do not hesitate to contact me at (979) 209-5918.

Sincerely,

Alton G. Rogers, P.E.
Transportation/Drainage Division Manager





Notice of Intent (NOI) for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (MS4) under the TPDES Phase II MS4 General Permit (TXR040000)

TCEQ Office Use Only
Permit No.:
RN:
CN:



Did you know you can pay on line? Go to www.tceq.state.tx.us/ePay
Select Fee Type: GENERAL PERMIT MS4 PHASE II STORM WATER DISCHARGE NOI APPLICATION

Application Fee: You must pay the \$100 Application Fee to TCEQ for the application to be considered complete.
How did you pay this fee?

<input type="checkbox"/> Mailed:	Check/Money Order No.:	Name Printed on Check:
<input checked="" type="checkbox"/> EPAY:	Voucher No.: 42035	Is the Payment Voucher copy attached? <input checked="" type="checkbox"/> Yes

IMPORTANT:

- Use the attached **INSTRUCTIONS** when completing this form.
- After completing this form, use the attached **CUSTOMER CHECKLIST** to make certain all items are complete and accurate.
- Missing, illegible, or inaccurate items may delay final acknowledgment or coverage under the general permit.

One (1) copy of the NOI and SWMP with the completed SWMP Cover Sheet MUST be submitted with the original NOI and SWMP.

Is the copy attached? Yes

A. OPERATOR (applicant)

1. If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity?
CN 600373310

2. What is the full Legal Name of the applicant?
City of Bryan, Texas
(The exact legal name must be provided.)

3. What is the applicant's mailing address as recognized by the US Postal Service?

Address: P.O. Box 1000		Suite No./Bldg. No./Mail Code:
City: Bryan	State: Texas	ZIP Code: 77803

Country Mailing Information (if outside USA). Country Code: Postal Code:

4. Phone No.: (979) 209-5100 Extension:

5. Fax No.: (979) 209-5106 E-mail Address: arogers@bryantx.gov

6. Indicate the type of Customer:

- Federal Government State Government County Government
 City Government Other Government

7. Number of Employees: 0-20; 21-100; 101-250; 251-500; or 501 or higher

B. BILLING ADDRESS

The Operator is responsible for paying the annual fee. The annual fee will be assessed to permits active on **September 1 of each year**. TCEQ will send a bill to the address provided in this section. The Operator is responsible for terminating the permit when it is no longer needed.

Is the billing address same as the Operator Address? Yes, go to **Section C.** No, fill out **Section B**

1. Billing Mailing Address: Suite No./Bldg. No./Mail Code:

City: State: ZIP Code:

2. Country Mailing Information (if outside USA). Country Code: Postal Code:

3. Billing Contact (Attn or C/O):

4. Phone No.: () Extension:

5. Fax No.: () E-mail Address:

C. REGULATED ENTITY (RE) INFORMATION

1. Has the TCEQ issued a Regulated Entity Reference Number (RN) for the regulated MS4 ?

Yes. What is the RN? **RN**

No - TCEQ will assign the RN number after the NOI is submitted.

2. Name that is used to identify the small MS4 (Regulated Entity).

(Example: City of XXX MS4) **City of Bryan MS4**

3. Provide a brief description of the regulated MS4 boundaries:

(Example: Area within the City of XXXX limits that is located within the xxx (e.g. Dallas) urbanized area.)

Area within the City of Bryan limits that is located within the College Station urbanized area.

4. a. What is the county where the largest residential population exists within the regulated MS4 boundaries?

Brazos

b. Is the MS4 located within additional counties? Yes No

If yes, what county(s)?

5. What is the latitude and longitude of the approximate center of the regulated portion of the small MS4?

Latitude: **30.6710**

N

Longitude: **-96.3708**

W

6. What is the mailing address for the regulated entity?

Is the RE mailing address the same as the Operator? Yes, go to Section F. No, provide the address.

Street Number:

Street Name:

City:

State:

ZIP Code:

D. GENERAL CHARACTERISTICS

1. I certify that any portion of the regulated MS4 is **not** located on Indian Country Lands. Yes No

If No, you must obtain authorization through EPA, Region VI.

2. What is the Standard Industrial Classification (SIC) code (see instructions for common codes): **9111**

3. Has TCEQ "designated" the small MS4 as needing coverage under this general permit? Yes No

If "No" and no portion of the Small MS4 is located within an Urbanized Area as determined by the 2000 Decennial Census by the U.S. Bureau of Census requiring a NOI be submitted, the operator is not eligible for coverage under this general permit through the NOI.

4. Storm Water Management Program (SWMP)

a. I certify that the SWMP submitted with this Notice of Intent has been developed according to the provisions of this general permit TXR040000. Yes No

b. I certify that the SWMP Cover Sheet is completed and attached to the front of the SWMP. Yes No

If No to question a. or b. the application is considered incomplete and may be returned.

b. Who is the person responsible for implementing or coordinating implementation of the SWMP?

(Note: All contact information requested below is required.)

Name: **Alton G. Rogers, P.E.**

Title: **Asst. Director of Public Works**

Company: **City of Bryan**

Address: **P.O. Box 1000**

Suite No./Bldg. No./Mail Code:

City: **Bryan**

State: **Texas**

ZIP Code: **77803**

Phone No.: (**979**) **209-5918**

Extension:

Fax No.: (**979**) **209-5959**

E-mail Address: **arogers@bryantx.gov**

5. Seventh Minimum Control Measure (MCM) for Municipal Construction Activities

a. Is the Minimum Control Measure for authorization to discharge storm water from municipal construction activities included with the attached SWMP? Yes No

b. If you answered "Yes" to 5.a., what are the boundaries within which those activities will occur?

Area within the City of Bryan limits that is located within the College Station urbanized area.

Note: If the boundaries are located outside of the urbanized area, then the entire SWMP must also incorporate the additional areas.

c. Is the discharge or potential discharge from regulated construction activities within the Recharge Zone, Contributing Zone, or Contributing zone within the Transition zone of the Edwards Aquifer? Yes No

If the answer is "Yes", please note that a copy of the agency approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) must be either included or referenced in the construction storm water pollution prevention plan(s).

6. Discharge Information

a. What is the name of the receiving water body(s) from the MS4?

- 1)Thompson Creek/Brazos River
- 2)Turkey Creek/Brazos River
- 3)Carter's Creek/Navasota River

b. What is the classified segment(s) that receives discharges, directly or indirectly, from the small MS4?

c. Are any of the surface water bodies receiving discharges from the small MS4 on the latest EPA-approved CWA § 303(d) list of impaired waters? Yes No

If Yes, what is the name of the impaired water body(s) receiving the discharges from the small MS4?

Seg ID's 1209, 1209A, 1209B, 1209C, 1209D, 1209L, 1242B, 1242C, & 1242D

d. Is the discharge into any other MS4 prior to discharge into surface water in the state? Yes No

If Yes, what is the name of the MS4 Operator? City of College Station (Burton Creek/Carter's Creek)

7. Edwards Aquifer

Is the discharge or potential discharge from the MS4 within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer? Yes No

If the answer is Yes, please note that a copy of the agency approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) for activities also regulated under this general permit must be either included or referenced in the SWMP.

8. Public Participation Process

The Office of Chief Clerk will send the operator or person responsible for publishing notice, the notice of the executive director's preliminary determination of the NOI and SWMP, for publishing in a newspaper of largest circulation in the county where the small MS4 is located. If multiple counties, notice must be published at least once in the newspaper of largest circulation in the county containing the largest resident population.

The applicant must file with the Chief Clerk a copy of an affidavit of the publication within 60 days of receiving the written instructions from the Office of Chief Clerk.

a. I will comply with the Public Participation requirements described in Part II.D.12 of the general permit. Yes No
If No, coverage under this general permit is not obtainable.

b. Who is the person responsible for publishing notice of the executive director's preliminary determination on the NOI and SWMP? (Note: All contact information requested below is required.)

Name: Linda Huff, P.E. Title: Director of Public Works Company: City of Bryan

Address: P.O. Box 1000 Suite No./Bldg. No./Mail Code:

City: Bryan State: Texas Zip Code: 77803

Phone No.: (979) 209-5112 Extension:

Fax No.: (979) 209-5106 E-mail Address: lhuff@bryantx.gov

c. What is the name and location of the public location where copies of the NOI and SWMP, as well as the executive director's general permit and fact sheet, may be viewed?

Name of Public Place: City of Bryan Municipal Building

Address of Public Place: 300 S. Texas Avenue, Bryan, Texas

County of Public Place: Brazos

E. CERTIFICATION

Check "Yes" to the certifications below. **Failure to indicate "Yes" to ALL items** may result in denial of coverage under the general permit.

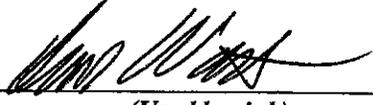
- I certify that I have obtained a copy and understand the terms and conditions of the general permit TXR040000. Yes
- I certify that the small MS4 qualifies for coverage under the general permit TXR040000. Yes
- I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed. Yes
- I understand that permits active on September 1st of each year will be assessed an Annual Water Quality Fee. Yes

Operator Certification:

I, David Watkins City Manager
Typed or printed name Title

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

I further certify that I am authorized under **30 Texas Administrative Code §305.44** to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature:  Date: 2/8/08
(Use blue ink)

[Shopping Cart](#)[Select More Fees](#)[Search Transactions](#)[Questions or Comments](#)[Sign Out](#)

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	42035
Trace Number:	582EA000032057
Date:	02/08/2008 01:18 PM
Payment Method:	CC - Authorization 0000065696
Amount:	\$100.00
Fee Type:	General Permit Water Discharge Application
ePay Actor:	City Of Bryan
Actor Email:	arogers@bryantx.gov
IP:	208.180.125.9

Payor Information

Payor Name:	Alton G Rogers
Company:	City Of Bryan
Address:	P O Box 1000, Bryan, TX 77803
Phone:	979-209-5918

Site Information

Site Name:	CITY OF BRYAN
Site Address:	P O BOX 1000, BRYAN, TX 77803
Site Location:	WITH IN THE CITY OG BRAYN CITY LIMITS

Customer Information

Customer Name:	CITY OF BRYAN
Customer Address:	P O BOX 1000, BRYAN, TX 77803

[Close](#)

Storm Water Management Program (SWMP) Cover Sheet

Confirm Each Minimum Control Measure (MCM) Below is Included in the SWMP

This cover sheet **MUST** be completed by indicating the page number where the requested item will be found in the SWMP. Provide the page number in the left column for each item.

This cover sheet **MUST** be attached to the front of the SWMP.

Operator Name on NOI:

Page # (s)	MCM 1: Public Education and Outreach on Storm Water Quality Issues
10-14	<p>SWMP includes the following required elements:</p> <ol style="list-style-type: none"> 1. Educational materials are distributed to the community, or equivalent public outreach is conducted. 2. The following groups are included in the program, or the SWMP provides justification if the group is not included: residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel. 3. Outreach informs groups about impacts storm water can have on water quality, hazards associated with illegal discharges, and steps they can take to reduce pollutants in storm water runoff.
10-14	<p>SWMP Lists Best Management Practices (BMPs) used to fulfill this MCM. Examples of possible BMPs include, but are not limited to, the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Classroom Education <input type="checkbox"/> Use of media <input type="checkbox"/> Education/Outreach for Commercial Activities <input type="checkbox"/> Lawn and garden activities <input type="checkbox"/> Promotional giveaways <input type="checkbox"/> Water conservation practices for homeowners <input type="checkbox"/> Outreach programs tailored to specific communities and children <input type="checkbox"/> Storm water educational materials <input type="checkbox"/> Educational displays, pamphlets, booklets, and utility stuffers <input type="checkbox"/> Webpage <input type="checkbox"/> Storm drain stenciling <input type="checkbox"/> Speakers to community groups <input type="checkbox"/> Encouragement of proper lawn and garden care <input type="checkbox"/> Encouragement of low impact development <input type="checkbox"/> Support of pollution prevention for businesses <input type="checkbox"/> Encouragement of water conservation practices <input type="checkbox"/> Encouragement of pet waste management <input type="checkbox"/> Storm water hotlines
12-13	SWMP includes measurable goals, and the method of measurement, for addressing storm water quality.
<input checked="" type="checkbox"/>	SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from permit issuance date.
Page # (s)	MCM 2: Public Involvement/Participation
15-18	SWMP includes a program that complies with State and local public notice requirements.
15-17	<p>SWMP lists BMPs used to fulfill this MCM. Examples of possible BMPs may include the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Stakeholder meetings <input type="checkbox"/> Community hotline <input type="checkbox"/> Coordination with school groups/scouting <input type="checkbox"/> Listserver <input type="checkbox"/> Stream cleanup and monitoring <input type="checkbox"/> Adopt-A-Stream programs <input type="checkbox"/> Incentives for businesses to participate, such as web links

	<ul style="list-style-type: none"> <input type="checkbox"/> Volunteer monitoring <input type="checkbox"/> Watershed Organization <input type="checkbox"/> Storm drain stenciling programs <input type="checkbox"/> Advisory/partner committees <input type="checkbox"/> Mailing list development and use <input type="checkbox"/> Reforestation programs <input type="checkbox"/> Wetland plantings <input type="checkbox"/> Coordinate volunteer programs
15-17	SWMP includes measurable goals, and the method of measurement, for addressing storm water quality.
17	SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from permit issuance date.
Page # (s)	MCM 3: Illicit Discharge Detection and Elimination
19-23	<p>SWMP includes the following required elements:</p> <ol style="list-style-type: none"> 1. Description of program that will be used to detect and eliminate illicit discharges 2. Description of the manner and process to be used to effectively prohibit illicit discharges, including, at a minimum: <ol style="list-style-type: none"> a. List of detection techniques b. Appropriate actions and enforcement procedures for removing the source of an illicit discharge c. To the extent allowable under state and local law, an ordinance or other regulatory mechanism is utilized to prohibit and eliminate illicit discharges d. Description of local controls and conditions established for common and incidental non-storm water discharges that the operator does not consider illicit 3. Map of outfalls included or described in schedule, with following information: <ol style="list-style-type: none"> a. Locations of all outfalls b. Names and locations of waters of the U.S. receiving discharges from the MS4 c. Source(s) of information used to develop and update map
19-23	<p>SWMP Lists BMPs used to fulfill this MCM. Examples of possible BMPs may include the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> List of non-storm water discharges that will not be considered illicit <input type="checkbox"/> Procedures to address illegal dumping <input type="checkbox"/> Hazardous materials disposal opportunities <input type="checkbox"/> Industrial / Business connections <input type="checkbox"/> Addressing wastewater connections to MS4 <input type="checkbox"/> Addressing recreational sewage (boats/camping/etc.) <input type="checkbox"/> System inspections <input type="checkbox"/> Dye testing <input type="checkbox"/> Recycling programs <input type="checkbox"/> Informing public/employees/businesses of hazards associated with illicit discharges <input type="checkbox"/> Identification of illicit discharges <input type="checkbox"/> Used oil collection centers <input type="checkbox"/> Public outreach and education programs regarding illicit discharges <input type="checkbox"/> Publicize and facilitate public reporting
20-23	SWMP includes measurable goals, and the method of measurement, for addressing storm water quality.
23	SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from permit issuance date.
Page # (s)	MCM 4: Construction Site Storm Water Runoff Control
24-31	<p>SWMP includes the following required elements listed below:</p> <ol style="list-style-type: none"> 1. Description of program that will be developed, implemented and enforced, to address storm water runoff from construction one acre and greater (including larger common plan) 2. Ordinance or other regulatory mechanism to require erosion and sediment controls, to the extent allowable under state and local law <ol style="list-style-type: none"> a. Ordinance/regulatory mechanism includes sanctions to ensure compliance, to the extent allowable under state and local law b. Program requires contractors to implement erosion and sediment control BMPs

	<p>c. Program requires contractors to control construction site waste</p> <ol style="list-style-type: none"> 3. Procedures for site plan review to consider water quality impacts 4. Procedures for receipt and consideration of input from the public 5. Procedures for site inspection and enforcement of control measures, to the extent allowable under state and local law
24-30	<p>SWMP lists BMPs used to fulfill this MCM. Examples may include:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Requirement to comply with TPDES CGP <input type="checkbox"/> Notification to discharger of responsibilities under TPDES CGP <input type="checkbox"/> Hire staff to review construction site plans <input type="checkbox"/> Provide a web page for public input on construction activities <input type="checkbox"/> Require overall construction site waste management <input type="checkbox"/> Perform site inspections and enforcement <input type="checkbox"/> Provide education and training for construction site operators <input type="checkbox"/> Notify dischargers of requirement to obtain TPDES permit coverage <input type="checkbox"/> Mechanism to prohibit discharges into MS4 where necessary
24-30	SWMP includes measurable goals, and the method of measurement, for addressing storm water quality.
24-30	SWMP includes measurable goals, and the method of measurement, for addressing storm water quality.
31	SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from permit issuance date.
Page # (s)	MCM 5: Post-Construction Storm Water Management in Areas of New Development and Redevelopment
32-39	<p>SWMP includes the following required elements listed below:</p> <ol style="list-style-type: none"> 1. SWMP describes program that will be developed, implemented and enforced, to address storm water runoff from new development / redevelopment activities of one acre and greater (including larger common plan) 2. Program ensures controls are in place to address runoff 3. Strategies include structural and/or non-structural BMPs appropriate for the community 4. Ordinance or other regulatory mechanism is in place or planned which will regulate discharges from new development and redevelopment projects 5. Long term operation and maintenance of BMPs is addressed
32-38	<p>SWMP lists BMPs used to fulfill this MCM. Examples may include:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Local ordinance in place or planned <input type="checkbox"/> Guidance document for developers to utilize <input type="checkbox"/> Specific BMPs established for particular watersheds <input type="checkbox"/> List of appropriate BMPs provided to operators <input type="checkbox"/> Elimination of curbs and gutters is encouraged <input type="checkbox"/> Zoning takes into account storm water issues <input type="checkbox"/> Incentives for use of permeable choices, such as porous pavement <input type="checkbox"/> Requirements for wet ponds or other BMPs for certain size sites <input type="checkbox"/> Xeriscaping
32-38	SWMP includes measurable goals, and the method of measurement, for addressing storm water quality.
39	SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from permit issuance date.
Page # (s)	MCM 6: Pollution Prevention / Good Housekeeping Measures for Municipal Operations
40-47	<p>SWMP includes the following required elements listed below:</p> <ol style="list-style-type: none"> 1. Operation and maintenance (O&M) program in place or scheduled, to reduce/prevent pollution from municipal operations 2. Housekeeping measures and BMPs that will reduce pollutants have been identified 3. Training provided for employees involved in municipal operations subject to the housekeeping/BMP requirements 4. Maintenance of structural BMPs (if applicable) is performed <ol style="list-style-type: none"> a. SWMP lists maintenance schedules for structural BMPs (if applicable) b. SWMP lists long term inspection procedures to reduce floatables

	<p>5. Waste is removed from MS4 and properly disposed</p> <p>a. Procedures for waste disposal are included for dredge spoil, accumulated sediment, and floatables</p> <p>6. List of municipal operations subject to O&M program or training program</p> <p>7. List of municipally owned industrial activities subject to TPDES industrial storm water regulations</p>
40-46	<p>SWMP lists BMPs used to fulfill this MCM. Examples may include:</p> <ul style="list-style-type: none"> <input type="checkbox"/> BMPs which address fleet vehicle maintenance/washing <input type="checkbox"/> BMPs which address parking lot and street cleaning <input type="checkbox"/> Catch basin and storm drain system cleaning <input type="checkbox"/> Landscaping and lawn care (e.g. xeriscaping) <input type="checkbox"/> Waste materials management <input type="checkbox"/> Road salt application and storage practices <input type="checkbox"/> Used oil recycling <input type="checkbox"/> Pest management practices <input type="checkbox"/> Fire training facilities <input type="checkbox"/> BMPs which address roadway and bridge maintenance <input type="checkbox"/> Golf course maintenance/waste disposal <input type="checkbox"/> Disposal of cigarette butts <input type="checkbox"/> Park maintenance (e.g., providing trash bags)
40-46	SWMP includes measurable goals, and the method of measurement, for addressing storm water quality.
46	SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from permit issuance date.
Page # (s)	<p>Optional 7th MCM : Municipal Construction Activities (only available within the regulated area where the MS4 operator meets the definition of construction site operator)</p> <p>If this MCM is utilized applicable, SWMP must include the following information:</p>
	Description of how construction activities will generally be conducted so as to take into consideration local conditions of weather, soils, and other site specific considerations
	Description of the area that this MCM will address and where the MS4 operator's construction activities are covered (e.g. within the boundary of the urbanized area, the corporate boundary, a special district boundary, an extra territorial jurisdiction, or other similar jurisdictional boundary)
	If the area included in this MCM includes areas outside of the UA, then all MCMs will be implemented over those additional areas as well.
	<p>Description provided for one of the following:</p> <ul style="list-style-type: none"> ▶ How contractor activities will be supervised or overseen to ensure that the SWP3 requirements are properly implemented at the construction site(s); or ▶ How the MS4 operator will make certain that contractors have a separate authorization for storm water discharges if needed.
	General description of how a construction SWP3 will be developed for each construction site.

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INTRODUCTION

Background

This report provides the City of Bryan with a stormwater management plan (SWMP) that will serve as a guide for the expansion, development, and management of the City's storm drain system. The City of Bryan's stormwater management area includes those areas within Bryan's urban service boundary that drain to the municipal separate storm sewer system (MS4). Creation of a SWMP will help plan and direct the expansion and efficiency of Bryan's drainage system. The SWMP is intended to:

- Determine improvements needed to prevent and control potential flood damage within the City.
- Develop standards for the design and construction of storm sewers and flood storage facilities.
- Provide standards for water quality and erosion control practices.
- Analyze capital improvement financing options.
- Comply with Phase II NPDES Permit Requirements.

The following discharges listed below are not covered by this permit:

- Stormwater that flows to sumps.
- Natural stream systems.
- Direct stormwater discharges from private property to natural stream systems (without entering the MS4).
- Areas with no public stormwater infrastructure (i.e., grasslands).
- Areas with individual, general, or industrial stormwater permits.

The City has approximately 560 lane miles of streets. Some of the streets are served by storm sewer however a vast majority of the street system is served by open ditch drainage. The City's MS4 discharges directly to a series of minor creeks which feed into to the Brazos and Navasota Rivers system, located outside of the City limits. The following 4 creeks are responsible for runoff transport from Bryan's MS4:

- Burton Creek
- Turkey Creek
- Still Creek
- Carter Creek

Governmental Responsibility

The City functions as a chartered home-rule city, operated by a City Council/City Manager. The City Charter acts as the "constitution" that describes Bryan's governmental organization and authority. Elected officials include a Mayor and six Council Members. The Bryan City Council passed a resolution supporting the stormwater permit application on January 22, 2008. This action provides the City with legal authority to implement the programs outlined in the SWMP.

The Public Works Director is responsible for overall program management, compliance, reporting, policy development, and coordination for the SWMP. Divisions within the Department are responsible for various aspects of construction, inspection, and maintenance. The Transportation/Drainage Division handles runoff management, street drainage system maintenance, and street maintenance. The Engineering Department is responsible for project oversight and managing the City's infrastructure. The Environmental Services Division is responsible for trash collection within the City, whereas wastewater collection and sanitary sewer system are maintained by the Water Services Department. Mapping of the City's storm drain system is maintained in GIS format (ArcView, ArcInfo). Maintenance of the City's GIS System is performed by the I.T. Department.

Inspections and enforcement of city code are shared between various departments. Enforcement of city code pertaining to building permits, junk vehicles, dilapidated structures, and high weeds and grasses is performed by the Building Services Department, whereas enforcement of illegal dumping, general nuisances, and prohibited discharges is performed by the Public Works Department. All other enforcement activities are handled by the Police Department.

NPDES Permit Overview

The primary goal of the National Pollution Discharge Elimination System (NPDES) is to restore and maintain the chemical, physical, and biological integrity of Waters of the State through management and treatment of point-sources of pollution such as urban stormwater runoff. The NPDES system accomplishes the management of MS4s through a mandated stormwater pollution prevention program.

Phase I of the U.S. Environmental Protection Agency's (EPA) municipal stormwater program was promulgated in 1990 under the authority of the Clean Water Act. Phase I relied on NPDES permit coverage to address stormwater runoff from medium and large MS4s, serving populations of 100,000 or greater.

Phase II was the next step in the EPA's efforts to preserve, protect, and improve the nation's water resources from polluted stormwater runoff. The Phase II program requires additional operators (small MS4s in urbanized areas, populations less than 100,000) to implement programs and practices to control polluted stormwater runoff, through the NPDES permit program.

Phase II rules require operators of municipal separate storm sewers systems to develop a SWMP to address the following six (6) minimum control measures (MCMs):

1. Public Education/Outreach.
2. Public Involvement/Participation.
3. Illicit Discharge Detection/Elimination.
4. Pollution Prevention/Good Housekeeping
5. Construction Site Runoff Control

6. Stormwater Management in New Construction/Redevelopment

Stormwater Management Plan (SWMP)

The SWMP is a comprehensive plan that expresses the overall intent and breadth of the City of Bryan's stormwater management program for the MS4. It includes implementation tasks and, where possible, schedules. The SWMP addresses best management practices (BMPs), monitoring triggers, narrative conditions, and other elements designed to reduce the introduction of pollutants into the Water of the State from Bryan's MS4.

Additionally, the SWMP includes evaluation and reporting requirements designed to measure the effectiveness of the pinpointed control measure and other programs. Once approved, activities and procedures outlined within the SWMP, and all modifications made to the SWMP, shall become enforceable by the TCEQ.

Summary of Established Minimal Control Measures (MCMs)

The framework of the City's SWMP is comprised of six (6) MCMs. Each MCM focuses on activities performed within the City which could impact the integrity of receiving waters. BMPs, listed in each MCM have been selected based on physical observations, experience of maintenance staff, technical feasibility, cost, effectiveness, and public acceptance. A brief summary of each MCM is listed below:

MCM 1: Public Education/Outreach

The purpose of this control measure is to increase the public's awareness to stormwater quality and to encourage environmental stewardship within the community. Public education materials used within the City's SWMP are designed to translate technical information into information the public can easily understand. Having an informed public will help support the initiatives outlined within the SWMP. Educational materials (newsletters, fact sheets, brochures) should include options and alternatives for disposal of unwanted items and storm drain "do's" and "don'ts".

MCM 2: Public Involvement/Participation

The purpose of this control measure is to build lasting partnerships focused on stormwater protection between the City and the community. Targeting a vast audience within this control measure will aid in the success and expansion of the City's stormwater program. Utilizing alternative advertising methods such as radio and television, announcements at civic organization meetings, distribution of flyers, mass mailings, door-to-door visits, telephone notifications and multilingual announcements will support program participation and outreach.

MCM 3: Illicit Discharge Detection/Elimination

The purpose of this control measure is to identify and eliminate illicit discharges to the storm drain system through a systematic survey and inspection program. Stormwater contamination can be attributed to aging pipe used in the storm drain and sanitary sewer system. As these pipes age, they develop cracks and leaks, which promote the threat of infiltration between each system. Furthermore to complicate matters, studies of urban storm drain systems have shown that a high percentage of industrial and commercial establishments (such as auto shops and restaurants) have improper or illicit plumbing connections to the storm drain system. Eliminating illicit discharges will support watershed health by improving the water quality within the City's storm drain system

MCM 4: Construction Site Runoff Control

The purpose of this control measure is to develop and enforce requirements that developers/builders must incorporate into new development/redevelopment projects to help mitigate stormwater quality. The design and construction of new development and redevelopment can have significant impacts on water quality. If not properly managed, construction activities can result in erosion and the discharge of sediment and other pollutants. Replacing natural pervious ground surfaces with impervious surfaces increase the volume and peak rate of stormwater runoff, which promotes erosion, flooding, and habitat impairment.

MCM 5: Stormwater Management in New Construction/Redevelopment

The purpose of this control measure is to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre of land, including projects less than one acre part of a larger common plan of development or sale that will result in disturbance of one or more acres.

MCM 6: Pollution Prevention/Good Housekeeping

The purpose of this control measure is to lessen the City's "footprint" on stormwater quality from municipal operations and projects. Pollution Prevention/Good Housekeeping focuses on the internal activities of the City of Bryan. By examining how Bryan's operations are conducted, cost effective ways of controlling pollutants at their sources can be identified and implemented, and safe and efficient work practices can be integrated with environmental responsibility and stewardship.

Program Evaluation and Recordkeeping

Records Retention

All records required by the general permit must be maintained for a period of three (3) years, or for the term of the general permit, whichever is longer. All records, including the SWMP, must be available to the public. Copies of the SWMP must be made available to the public within 10 working days if requested in writing.

Noncompliance

Notification, oral or written, must be provided to the TCEQ Region 9 Office within 24 hours of becoming aware of any condition of noncompliance with the requirements outlined in the general permit. Following the notification process mentioned above, a written report describing the following must be submitted to the TCEQ Enforcement Division (MC-224) within five working days:

- Description of noncompliance and its cause.
- Potential danger to human health and safety, or the environment.
- Period of noncompliance, including exact dates and times.
- Anticipated time for correction.
- Steps taken or planned to reduce, eliminate, and prevent recurrence of noncompliance.

TCEQ
Region 9 – Waco Office
6801 Sanger Avenue, Suite 2500
Waco, TX 76710
(254) 761-3044

TCEQ
Enforcement Division (MC-224)
P.O. Box 13087
Austin, TX 78711-3087
(512) 239- 1000

Annual Compliance Report

Each year the City must evaluate its program compliance, the appropriateness of each identified BMP, and the progress made towards achieving the measured goals of each control measure. Progress made within each control measure should be documented by the responsible department for use in reporting.

By November 11th of each year, the City must submit an Annual Compliance Report for each permit term to the TCEQ Executive Director for review. Reporting must cover activities performed in the previous reporting year (August 13th – August 12th). The following information must be included in the report

- Status of compliance with permit conditions, an assessment of the appropriateness of the identified BMPs, progress made towards achieving the goal of reducing the discharge of pollutants to the MEP, progress made within measured goals for each MCM, and an evaluation of the successes regarding the implementation of the measured goals.
- Status of any additional control measure(s) implemented by the permittee (if applicable).
- Summary of the results of information (including monitoring data) collected and analyzed, if any, during the reporting period used to assess the success of the program at reducing the discharge of pollutants to the MEP.
- Summary of the stormwater activities the City plans to undertake during the next reporting cycle.
- Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements.

- Number of municipal construction activities authorized under the general permit and the total number of acres disturbed.
- Number of non-municipal construction activities that occurred within the jurisdiction of the permittee.
- Notice that the City is relying on another government entity to satisfy some of its permits obligations (if applicable).

TCEQ
Stormwater & Pretreatment Team (MC-148)
P.O. Box 13087
Austin, TX 78711-3087

DEFINITIONS

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

Clean Water Act – The Federal Water Pollution Control Act.

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

- a) The person or persons that have operational control over construction plans and specifications (including approval of revisions) to the extent necessary to meet the requirements and conditions of the general permit; or
- b) The person or persons that have day-to-day operational control of those activities at a construction site that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

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

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

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

Illicit Discharge – Any discharge to a municipal separate storm sewer that is not entirely composed of stormwater, except discharges pursuant to this general permit or a separate authorization and discharges resulting from emergency fire fighting activities.

General Permit – General Permit to Discharge Under the Texas Pollution Discharge Elimination System (TPDES General Permit No. TXR040000)

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

grading of existing dirt roads, the routine clearing of existing right-of-ways, and similar maintenance activities.

Maximum Extent Practicable (MEP) – the technology-based discharge standard for municipal separate storm sewer systems to reduce pollutants in stormwater discharges.

Outfall – A point source at the point where a municipal separate storm sewer discharges to surface water in the state and does include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels, or other conveyances that connect segments of the same stream or other waters of the U.S. and are used to convey waters of the U.S.

Permittee – the MS4 operator authorized under the general permit.

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

Small Construction Activity – construction activities including clearing, grading, and excavating that result in the land disturbance of equal to or greater than one (1) acre and less than five (5) acres of land. Small construction activity also includes the disturbance of less than one (10 acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one (1) and less than five (5) acres of land. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, and original purpose of a ditch, channel, or other similar storm water conveyance. Small construction activity does not include the routine grading of existing dirt roads, asphalt overlays or existing roads, the routine cleaning of existing right-of-ways, and similar maintenance activities.

Small Municipal Separate Storm Sewer System (MS4) – an conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains). *See general permit for further explanation.*

Stormwater – Stormwater runoff, snow melt runoff, and surface runoff and drainage.

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

Structural Control (or Practice) – A pollution prevention practice that requires the construction of a device, or the use of a device, to capture or prevent pollution in stormwater runoff.

Texas Commission on Environmental Quality (TCEQ) – Permitting authority

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

MCM 1: PUBLIC EDUCATION/OUTREACH

PROGRAM OBJECTIVES:

- Promote practices conducive to the reduction of stormwater pollution.
- Get the message out and raise public awareness about urban runoff pollution and its impact on the community's water resources.
- Educate the community about specific pollutant sources and what actions citizens can do to reduce urban runoff pollution.

TARGET AUDIENCES

Education activities will be aimed at a diverse group of sectors or audiences within our community. A brief description of each group targeted within this control measure and examples of how each group impacts stormwater quality are listed below:

1. Residential Community

Many times simple activities such as fertilizing, vehicle maintenance, and home improvements adversely impact our environment when performed incorrectly. Targeting educational materials to inform residents of safe alternatives and good housekeeping practices concerning home and yard maintenance will aid in lowering stormwater impact by this sector. Educational efforts should target the following activities:

- Automotive maintenance and washing.
- General home maintenance, including building repair, painting, remodeling, and disposal of swimming pool and spa water.
- Landscape maintenance, irrigation, weed and pest control, fertilization, yard debris and pet waste disposal.

2. Children in the Community

Studies have shown that one of the most effective ways of educating the community is through children's programs because children carry the messages home. Tailoring educational programs and literature to various audiences ranging from elementary to high school aged children will promote maximum outreach/impact of this control measure. The following avenues should be incorporated into this sector to maximize program effectiveness:

- School Assembly Program (presentations).
- Teacher Workshops (using "WET" curriculum).
- Enviroscape Model (3-dimensional watershed model).
- Science Fairs (promote an urban runoff award).

3. Commercial Sector

Office buildings, restaurants, warehouses, service centers, and retail stores play a large role in the growth and development of a city due to the tax revenues produced by these entities and the services they provide for the community. Unfortunately, runoff from these establishments can impact stormwater quality when poor housekeeping measures are practiced. Educational efforts should target the following avenues:

- Materials handling and storage.
- Good housekeeping measures and preventive maintenance activities.
- Waste management (which includes dumpster areas, parking lots, and solid waste disposal).
- Employee training concerning stormwater pollution prevention and spill response and clean-up.

4. Industrial Sector

Because material handling and storage activities performed by industrial customers are often exposed to the weather, industrial stormwater runoff poses an elevated threat to receiving waterways if proper steps are not taken to protect stormwater integrity. Educational efforts should target the following avenues:

- Proper disposal of wastes and wastewaters associated with industrial operations.
- BMPs regarding outdoor activities (materials storage & handling and equipment maintenance).
- Prevention measures and good housekeeping measures.
- Employee training concerning stormwater pollution prevention and spill response and clean-up.

5. Construction/Development Sector

Construction activities impact stormwater quality by disturbing land through the use of heavy equipment and increased traffic. As stormwater flows over a construction site, it picks up pollutants like sediment, debris, and chemicals. When received by water bodies, these pollutants can harm fish and wildlife, and can impede the natural flow of the water course. Educational efforts should target the following avenues:

- Proper disposal of wastes associated with construction operations.
- BMPs regarding outdoor activities (materials storage & handling, erosion control, and equipment maintenance)
- Prevention measures and good housekeeping measures to protect stormwater runoff quality.
- Employee training concerning stormwater pollution prevention and spill response and clean-up.

6. Government Sector

As the local regulatory authority, the City of Bryan must lead by example regarding stormwater management for all sectors within its jurisdiction. The City of Bryan shall serve as educational source and enforcement agency within our local community. Stormwater pollution prevention training will be provided to all essential City personnel responsible for the daily management and implementation of the City's

SWMP. Additionally, a steering committee composed of various city departments will be responsible to meet, review, and recommend necessary modifications to increase the effectiveness of the City's SWMP.

PLAN IMPLEMENTATION & PERFORMANCE MEASURES

A. Increased Involvement/Partnerships/Outreach with Schools

Components of this measure include the development of informational materials, brochures, presentation packages, and surveys gauging program effectiveness. Topics will include a listing and description of typical stormwater contaminants, disposal of household hazardous waste, illicit connections and discharges, and BMPs to prevent exposure/pollution.

Measurable Goal(s):

- Number of distributed educational materials.
- Number of workshops provided to teachers and students.
- Number of classes, schools, or students that participated in municipality-sponsored stormwater workshops or activities.
- Number of service learning activities conducted or attended.

Measure Lead:

- Public Works Department.

B. Development and Distribution of Stormwater Related Materials

A wide variety of educational avenues will be utilized throughout the permit term to achieve the goals of this control measure. Due to an increasing Hispanic population within the Bryan community, educational documents regarding stormwater issues and concerns will be provided in English & Spanish to boost the impact of this measure. Examples of recommended educational materials are:

- ✓ Brochures or fact sheets.
- ✓ Alternative information sources (such as web sites, bumper stickers, magnets, posters and restaurant placemats).
- ✓ Event participation with educational displays.
- ✓ Educational programs for children.
- ✓ Storm drain stenciling.

Measurable Goal(s):

- Number and description of toolbox items developed and used.
- Number of events and activities attended.
- Number of materials created and distributed.

Measure Lead:

- Public Works Department.

C. Stormwater Webpage

The City of Bryan will construct an active link on its homepage dedicated to stormwater management. Information concerning the City’s SWMP, Annual Compliance Report, and educational materials will be made accessible to website visitors. Traffic counters will be utilized to track monthly/yearly site visits.

Measurable Goal(s):

- Number of website visits per month/year.
- Number of stormwater links contained on website.

Partner(s):

- Public Works Department.

PROGRAM IMPLEMENTATION AND EVALUATION

Planned Performance Measures	Year 1	Year 2	Year 3	Year 4	Year 5
Develop educational booklets, pamphlets, and flyers	✓				
Distribute outreach materials to targeted groups (i.e. residents, industry, and businesses)		✓	✓	✓	✓
Develop public service announcements (PSAs) regarding stormwater protection		✓			
Conduct public service announcements (PSAs)			✓	✓	✓
Coordinate annual educational events (Planet Earth, Texas Recycles Day, Household Hazardous Waste)	✓	✓	✓	✓	✓
Coordinate adult education events (Homeowners Associations, Service and Professional Groups)	✓	✓	✓	✓	✓
Develop educational partnerships with local schools	✓	✓	✓	✓	✓
Hold stakeholder’s meeting, submit Annual Compliance Report	✓	✓	✓	✓	✓

DOCUMENTATION AND ANNUAL REPORTING

An annual meeting will be held to discuss the results of the past year's stormwater management activities prior to submitting the Annual Compliance Report to the TCEQ. This meeting will include all city departments responsible for maintenance of the City's SWMP. A copy the previous year's Annual Compliance Report and conducted activities will be discussed and reviewed before submission of the current year's Annual Report.

The following information will be necessary for compiling the Annual Compliance Report:

- The targeted audience or audiences involved.
- Number of distributed educational or performed outreach activities.
- Brief description of activities and/or avenues used to support measured goals.
- Observed performance of BMPs and MCMs.
- Progress made in meeting goals and implementing BMPs.

MCM 2: PUBLIC INVOLVEMENT/PARTICIPATION

PROGRAM OBJECTIVES:

- Gain broader public support of program through citizen participation in the development and decision making processes.
- Increase public involvement and participation in reducing stormwater pollution to runoff and receiving waters.
- Increased public participation in the form of citizen volunteers and open discussions.

TARGET AUDIENCES

- Ethnic, minority, and low-income communities.
- Academia and educational institutions.
- Neighborhood and community groups.
- Outdoor recreational groups.
- Business and industry.

PERFORMANCE MEASURES

A. Storm Drain Stenciling Program

Every year toxic chemicals like motor oil, paint, pesticides, and household cleaning products wash directly from storm drains, untreated, to lakes, bayous, and rivers. When untreated, these chemicals can have a significant impact on the quality of life for receiving waters. Implementing a volunteer oriented storm drain stenciling program focused on getting the basic message of “Drains to Creek” will aid in increasing the public’s awareness to the location and function of storm drains.

Measurable Goal(s)

- Number of storm drains stenciled.
- Number of requests received by volunteer groups to participate in the program.
- Number of stenciling volunteers.

Measure Lead:

- Public Works Department.

B. Adopt-A-Park/Adopt-A-Creek Programs

Implementing an Adopt-A-Creek/Adopt-A-Park program is a great way to keep parks and water bodies safe, attractive, and clean. An Adopt-A-Creek/Adopt-A-Park program is an on-going relationship between the City of Bryan and volunteers from organizations, schools, youth groups, and businesses. These programs allow

voluntary groups to make a lasting contribution to their community by improving the health and appearance of parks and water bodies within their community.

Measurable Goal(s)

- Number of volunteer monitoring training sessions held.
- The frequency of monitoring for parks and creeks.
- Number of volunteers participating in monitoring programs.

Measure Lead:

- Parks & Recreation Department.

Partner(s):

- Public Works Department.

C. Annual Clean-up Programs

Focusing clean-ups on community events is a great way to increase volunteer participation and promote environmental stewardship. Yearly events such as Earth Day, Texas Trash-Off, Planet Earth Celebration, and Bee-A-Good Neighbor serve as great target events to build clean-up activities around.

Measurable Goal(s)

- Number of stream and/or road miles cleaned.
- Number of park acreage cleaned.
- Quantity of trash, debris, and recyclables removed by the clean-up.
- Number of clean-up groups and/or participants.

Measure Lead:

- Parks & Recreation Department.

Partner(s)

- Public Works Department.

D. Stormwater Hotline

Implementing a “stormwater hotline” provides a means of communication for citizens to gain information on specific stormwater questions and report problems or concerns. Received calls will be answered by the Public Works Call Center and routed to the appropriate city department(s) for further action or assistance.

Measurable Goal(s)

- Number of concerns or questions received by the hotline.
- Number of problems or incidents identified and remedied as a result of the hotline.

Measure Lead:

- Public Works Department.

Partner(s)

- Parks & Recreation Department.
- Building Services Department.
- Water Services Department.

E. Annual Compliance Report Meeting

Prior to submission of the Annual Compliance Report, a public meeting will be held to provide citizens and policy makers the opportunity to gain information on the previous year's activities performed under the SWMP and make suggestions for future development/expansion of the SWMP.

Measurable Goal(s)

- Number of actions taken as a result of public meeting.
- Number of attendees at the annual meeting.

Measure Lead:

- Public Works Department.

Partner(s)

- Water Services Department.
- Building Services Department.
- Parks & Recreation Department.
- Building Services Department.

PROGRAM IMPLEMENTATION AND EVALUATION

Planned Performance Measures	Year 1	Year 2	Year 3	Year 4	Year 5
Develop public service announcements (PSAs) promoting public participation in the stormwater program		✓			
Implement stormwater hotline		✓	✓	✓	✓
Perform city cleanup event	✓	✓	✓	✓	✓
Implement storm drain stenciling program		✓	✓	✓	✓
Hold stakeholder's meeting, submit Annual Compliance Report	✓	✓	✓	✓	✓

DOCUMENTATION AND REPORTING

An annual meeting will be held to discuss the results of the past year's stormwater management activities prior to submitting the Annual Compliance Report to the TCEQ. This meeting will include all city departments responsible for maintenance of the City's SWMP. A copy the previous year's Annual Report and conducted activities will be discussed and reviewed before submission of the current year's Annual Report.

The following information will be necessary for compiling the Annual Compliance Report:

- The targeted audience or audiences involved.
- Number of distributed educational or performed outreach activities.
- Brief description of activities and/or avenues used to support measured goals.
- Observed performance of BMPs and MCMs.
- Progress made in meeting goals and implementing BMPs.

MCM 3: ILLICIT DISCHARGE DETECTION/ELIMINATION

PROGRAM OBJECTIVES

- Implement enforcement strategy for illicit connections and discharges.
- Control illicit connection/discharges by conducting field investigations of the storm drain system.
- Prevent illicit connections and prohibited discharges by combining public education with provisions for alternative waste disposal options and incentives.
- Clean-up accidental spills using proper methods of clean-up and disposal.

PERFORMANCE MEASURES

A. Enforcement of Illicit Discharges and Connections

The City of Bryan has established a phased approach for enforcing penalties and violations regarding illicit discharge and connections. This method of enforcement involves issuance of a warning as a first step, followed (if compliance does not occur) by administrative or legal action. This enforcement protocol is based on the assumption that the level of enforcement escalates until compliance is achieved. This approach does not prevent the City from skipping certain steps for more serious problems.

Phased Approach Enforcement Plan

Warning

- Verbal notice or a written letter to the owner/operator.
- A time frame to correct the identified problem should be based on the severity or complexity of the problem.

Administrative Action

- Formal notice in the forms of a Notice of Violation, Cease and Desist Order, Order to Abate, Notice to Clean, or any other similar notification outlined in the City's storm water ordinance that identifies a problem, requires correction or abatement but does not assess a fine.
- A time frame to correct the identified problem should be specified based on the severity or complexity of the problem.

Administrative Action with Fine and/or Cost Recovery

- Same as above with the addition that fine(s) are assessed administratively and/or abatement costs are recovered.

Legal Action

- Includes any actions taken by the City that brings the facility into the court system (citation, court action, etc.).

Measurable Goal(s)

- Number of ordinances and resolutions passed.
- Linear feet of storm drain system inspected.
- Number of new building connections inspected.
- Number of penalties enforced for prohibited discharges and illicit connections.

Partner(s)

- Public Works Department.
- Water Services Department.
- Building Services Department.

B. Storm Sewer Map

The storm sewer map is meant to demonstrate a basic awareness of the intake and discharge areas of the collection system. The storm sewer map is maintained through a partnership between the Public Works and I.T. Departments. The storm sewer map is accessible through the City's global information system (G.I.S.). Information contained within the map is used to determine the extent of dry weather flows, property owners and locations, the possible sources of the dry weather flows, and the particular water bodies' dry weather flows may be affecting.

The storm sewer map indicates the location of all the following:

- Creeks and watersheds.
- Structural pollution control devices.
- Conveyances 24 inches or larger in diameter.
- Discharge points leaving the system, including:
 - ✓ Discharges from the City of Bryan to other MS4 systems, waters, or wetlands that are not be part of the Bryan system.
 - ✓ Discharges to groundwater.
 - ✓ Overland discharges.

Measurable Goal(s)

- Linear feet of conveyances recorded.
- Number of discharge points recorded.
- Number of dry weather flows eliminated.
- Number of unwarranted connections repaired or replaced.
- Number of structural pollution control devices counted.

Partner(s)

- Public Works Department.
- Water Services Department.

C. Education Outreach

Education efforts should be performed to inform public citizens, public employees, and commercial and industrial property owners on the hazards of improper waste disposal and ways to detect/eliminate illicit discharges and connections to the storm sewer system. Information concerning these topics should be provided through citizen watch groups, home owner associations, informational brochures, and utility bill inserts.

Measurable Goal(s)

- Number of unwarranted connections reported.
- Number of illegal dumps reported by citizens.
- Number of illegal dump clean sites cleaned up.

Partner(s)

- Public Works Department.
- Water Services Department.
- Building Services Department.

D. Storm Sewer Outfall/Manhole Inspection Program

The City's outfall/manhole inspection program consists of annual inspections performed on all of its storm system outfalls during the dry season to check for dry-weather flows. Implementing a structured inspection procedure for field inspections will aid in ensuring uniformity within the inspection process. Information obtained from the outfall/manhole inspections should be incorporated into the storm sewer map to identify outfalls associated with industrial/commercial areas and/or the older sections of town, and the business types located within the effected areas.

Signs of an illicit connection/discharge can include:

- Abnormal water flows during the dry season.
- Unusual flows in subdrains used for dewatering.
- Pungent odors.
- Discoloration or oily substances in the water, or stains and waste residue in ditches, channels, or drain boxes.

The following actions should be taken if any of the above mentioned signs are observed during inspection:

1. Take photographs of the concern and document observations on the Illicit Discharge/Elimination Field Data Sheet.
2. Trace the flow upstream using storm drain maps and by inspecting upgradient manholes. Sampling and testing of water at the manhole or outfall where it is first detected is generally not considered necessary if the water appears "clear" but, if deemed appropriate, can be performed using field kits or taking grab samples for analysis. If tracking a discharge through visual inspection of upgradient manholes is not possible, alternate techniques that can be used

include zinc chloride smoke testing, fluorometric dye testing, physical inspection testing, or television camera inspection.

Once the origin of flow is established, require illicit discharger to eliminate the discharge:

- Once the suspected origin of the flow is determined, the inspector should inspect the source to see if it can be attributed to an illegal discharge or illicit connection. Once confirmed, the inspector should instruct the owner/operator of the property to rectify the situation. *See Enforcement of Illegal Discharges and Connections.* (Consult Figure 1, “Disposal of Non-Stormwater Discharges” for direction on alternative disposal options.)

Measurable Goal(s)

- Number of new buildings inspected.
- Number of illicit connections repaired or replaced.
- Number of illicit connections found.
- Number of ordinances and resolutions passed.
- Number of penalties enforced for illicit connections and discharges.
- Number of flyers, posters, or other public education tools distributed or programs started.

Partner(s)

- Public Works Department.
- Water Services Department.
- Building Services Department.

E. Program to Detect and Eliminate Sanitary Sewer Overflows

Sewage overflows occur when sanitary sewer collection pipes are blocked, restricted or broken, causing wastewater to back up in the pipe and flow out through manholes or pipe breaks to the surface of the ground. Most overflows are relatively small and can be stopped and cleaned up quickly. If left unattended, overflows can result in property damage, foul odors, environmental problems and fish kills.

The City’s sanitary sewer overflow program consists of ongoing capital improvement and maintenance projects associated with the City’s wastewater collection system. The City has committed to giving higher priority to capital-improvement and repair projects that will contribute to eliminating sanitary overflows. Examples of such projects include:

- Sewer separation and sanitary main restoration projects.
- Use of hydraulic modeling of the sanitary sewer system to identify improvements that will maximize storage capacity, locate problem areas, and evaluate the effectiveness of preventive maintenance work that has been completed.
- Continued research to find inlets and cross-connections to storm drains and eliminate them through maintenance repairs.

Measurable Goal(s)

- Number of sites repaired.
- Number of overflows that were identified during inspections.
- Number of overflows reported.
- Number of field tests and screens conducted.
- Frequency of routine maintenance activities.

Partner(s)

- Public Works Department.
- Water Services Department.
- Building Services Department.

PROGRAM EVALUATION AND EVALUATION

Planned Performance Measures	Year 1	Year 2	Year 3	Year 4	Year 5
Develop storm sewer map		✓			
Develop stormwater ordinance to support SWMP		✓			
Implement facility inspection and discharge detection training for public employees	✓	✓	✓	✓	✓
Recycling program in place for household hazardous waste	✓	✓	✓	✓	✓
Storm sewer system inspected for dry weather flows		✓			
Hold stakeholder's meeting, submit Annual Compliance Report	✓	✓	✓	✓	✓

DOCUMENTATION AND ANNUAL REPORTING

An annual meeting will be held to discuss the results of the past year's stormwater management activities prior to submitting the Annual Compliance Report to the TCEQ. This meeting will include all city departments responsible for maintenance of the City's SWMP. A copy the previous year's Annual Report and conducted activities will be discussed and reviewed before submission of the current year's Annual Report.

The following information will be necessary for compiling the Annual Compliance Report:

- The targeted audience or audiences involved.
- Number of distributed educational or performed outreach activities.
- Brief description of activities and/or avenues used to support measured goals.
- Observed performance of BMPs and MCMs.
- Progress made in meeting goals and implementing BMPs.

MCM 4: CONSTRUCTION SITE RUNOFF

PROGRAM OBJECTIVES

- Development and enforcement of requirements for developers/builders to follow in construction of new development and redevelopment projects to help mitigate impacts to storm water quality from construction one acre and greater (including larger common plan).
- Conduct inspections of the construction sites and their mitigation measures to assure compliance with local construction storm water regulations.
- Review all construction plans for compliance with local construction storm water regulations.
- Educate the construction community through development and distribution of education materials that focus on local storm water regulations.
- Comply with local, state and federal construction storm water regulations that apply to City owned and operated construction sites.
- Provide mechanism to public to report and receive feedback on construction related storm water problems.

PERFORMANCE MEASURES

A. Legal Authority (SWMP ID: 4-1)

Develop adequate legal authority to regulate local construction site runoff through construction permitting programs.

1. Identify any unique construction related storm water quality issues that may require regulation, including consideration of the following: - Karst topography- Critical habitats and endangered species- Wetland protection - Other environmentally sensitive areas.
2. Develop guidelines and regulatory issues necessary to control storm water runoff from construction sites under the following:- Temporary erosion control measures- Control of other construction wastes- Operation and general prohibitions- Final stabilization of the site- Local permitting requirements- Record keeping and locally required submissions.
3. Research existing legal authority available for the regulation of construction site operators.
4. Develop supplemental legal authority, through ordinance, order, or other policy related powers, that includes sanctions to regulate construction site runoff.
5. Develop draft regulations and educational materials necessary to inform the local construction community (contractors, developers, engineers, architects) about the local construction storm water regulations.

6. Provide the local construction community an opportunity to comment on the draft regulations.
7. Develop the final version of the local construction storm water regulations.
8. Provide notification to the local construction community of the final local construction storm water regulations.
9. Enforce the regulations as appropriate to regulate storm water discharges from local construction sites.

Measurable Goal(s)

- Research authority
- Develop regulations and educational materials
- Provide review period for local construction community
- Adopt the final regulations
- Enforce the regulations

Measure Lead:

- Public Works Department.

Partner(s)

- Legal Department.
-

B. Construction Inspection Procedures (SWMP ID: 4-2)

Develop inspection procedures and educate the local construction community on local storm water regulations related to construction activities.

1. Develop a list of items to incorporate in the inspection of local construction sites based on the final local construction storm water regulations and including the following categories:- Use of temporary erosion controls- Control of other construction related wastes- Operational and general prohibitions- Site closure and stabilization requirements- On-site documentation and records- Enforcement actions and on-site communication issues.
2. Develop draft inspection forms and procedures necessary to inspect local construction sites in order to ensure compliance with local construction storm water regulations.
3. Provide the local construction community (contractors, developers, engineers, architects) with an opportunity to comment on draft inspection documents and procedures.
4. Review comments from the local construction community, and prepare responses and modifications to the local inspection procedures if applicable.
5. Develop the final version of the local construction inspection forms and procedures.

6. Provide notification to the local construction community of the final inspection procedures.

Measurable Goal(s)

- Develop inspection procedures and requirements
- Develop inspection and reporting forms
- Provide review period for local construction community
- Adopt the final regulations

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

C. Construction Plans Review (SWMP ID: 4-3)

Implement a construction plans review process that focuses on compliance with local construction storm water regulations.

1. Develop a process to obtain construction plans for review to determine compliance with local construction storm water regulations.
2. Develop internal tracking and plan review procedures to cover the following issues: Conformance to local storm water regulations- Appropriate use of temporary erosion controls- Inclusion of any required local, state, and/or federal storm water permit documents.
3. Educate the local construction community (contractors, developers, engineers, architects) on the construction plans review process.
4. Implement the construction plans review procedures for local construction sites.
5. Notify the owners of construction plans when deficiencies are found in the plans during the review process.
6. Maintain records of plans reviewed and approved for construction under this program.
7. Annually report on the number of plans reviewed, approved and rejected under the plans review program.

Measurable Goal(s)

- Develop internal tracking procedures and implement
- Number of plans reviewed
- Number of plans approved
- Number of plans rejected

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

D. Construction Site Inspection (SWMP ID: 4-4)

Conduct inspections of local construction sites that discharge storm water to the City's storm water system to determine compliance with local construction storm water regulations.

1. Develop internal procedures for tracking new and on-going construction activities.
2. Train City inspection personnel on local construction storm water regulations and inspection procedures.
3. Inspect qualifying construction sites using appropriate inspection procedures and forms to ensure compliance with local storm water regulations.
4. Issue enforcement actions to owners and operators of local construction sites that are not in compliance with local construction storm water regulations.
5. Maintain records of construction site inspections, enforcement actions, and corrective actions performed by local construction site owners and operators.
6. Annually report on the total number of construction sites permitted, the number of construction sites inspected, and the number of enforcement actions issued.

Measurable Goal(s)

- Develop internal tracking procedures
- Train City inspection personnel on regulations and procedures
- Maintain records of site inspections, enforcement actions, and remedies
- Number of construction sites permitted
- Number of construction sites inspected
- Number of enforcement actions issued

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

E. Construction Community Education (SWMP ID: 4-5)

Development and distribution of educational materials that focus on local storm water regulations that affect the local construction community.

1. Develop educational materials (brochures, guidance documents, and presentational materials) for informing the local construction community (contractors, developers, engineers, architects) about local construction storm water regulations.
2. Develop educational materials designed to inform the local construction community on applicable local, state, and federal construction storm water regulations.
3. Distribute educational materials to construction site owners and operators that require state and/or federal construction storm water permits as determined in the plans review process.
4. Annually review educational materials to incorporate program changes and to ensure clarity and consistency with local construction storm water regulations.
5. Distribute / redistribute educational materials on the local construction storm water regulations as the local program changes.
6. Develop and maintain a contact list of individuals included in the local construction community.
7. Conduct presentations that focus on the current status of local construction storm water regulations and receive comments from the local construction community.
8. Review comments on educational materials and the local construction storm water regulations and prepare any needed modifications or additional language to ensure program success.
9. Annually report on educational materials distributed, attendance at presentations, and identity of any changes made to local construction storm water regulations.

Measurable Goal(s)

- Develop educational materials
- Distribute educational materials
- Review materials annually
- Maintain distribution list of local construction community
- Number of presentations on local regulations
- Number of materials distributed
- Catalog of changes made each year to materials

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

F. City Owned Construction Sites (SWMP ID: 4-6)

Comply with local, state, and federal construction storm water regulations that apply to City owned and operated construction sites.

1. Review City construction project planning and design criteria to determine changes needed to comply with local, state, and/or federal construction storm water regulations.
2. Prepare and distribute construction design and permitting guidelines to the local construction community (contractors, developers, engineers, architects) and involved City personnel.
3. Develop documents (Notice Of Intent (NOI), Storm Water Pollution Prevention Plans (SWP3's), inspection forms) required for obtaining state and/or federal construction storm water permits applicable to City owned and operated construction sites.
4. Submit required documents in order to obtain permit coverage for City owned and operated projects and comply with applicable state and/or federal construction storm water permit provisions.
5. Maintain compliance records for City owned and operated construction sites requiring state and/or federal construction storm water permits.
6. Annually report on the number of City owned and operated construction projects permitted under state and/or federal construction storm water regulations.

Measurable Goal(s)

- Review City criteria for changes
- Implement changes to City criteria
- Develop forms for storm water permits
- Maintain compliance records for City sites
- Number of City sites permitted annually

Measure Lead:

- Public Works Department.

Partner(s)

- Facilities Department
- Water & Wastewater Department
- Parks & Recreation Department

G. Construction Related Public Reporting (SWMP ID: 4-7)

Provide the public with a mechanism to report and receive feedback on construction related storm water problems.

1. Develop educational materials instructing the public in procedures for reporting to the City construction sites with potential storm water quality problems or local construction storm water regulation violations.
2. Ensure that the materials developed address the following items:-
Contact methods for reporting public observations- Information required for a complete public report on a potential construction related storm water quality problem.
3. Develop a web page for public input and education
4. Develop an internal tracking system to accept and issue acknowledgements of receipt of information reported by the public.
5. Review public reports to determine if a site investigation is required to ensure compliance with local construction storm water regulations.
6. Conduct on-site investigations of those sites reported by the public, which warrant investigation according to the best judgment of the City personnel.
7. Annually report on the quantity of public reports received and considered under this program.

Measurable Goal(s)

- Develop educational materials
- Develop tracking system for public reporting including web page
- Investigate sites reported by public
- Number of public reports received

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

PROGRAM IMPLEMENTATION

Planned Performance Measures	Year 1	Year 2	Year 3	Year 4	Year 5
Legal Authority (SWMP ID: 4-1)	✓	✓			
Construction Inspection Procedures (SWMP ID: 4-2)		✓	✓	✓	
Construction Plans Review (SWMP ID: 4-3)				✓	✓
Construction Site Inspection (SWMP ID: 4-4)				✓	✓
Construction Community Education (SWMP ID: 4-5)			✓	✓	✓
City Owned Construction Sites (SWMP ID: 4-6)				✓	✓
Construction Related Public Reporting (SWMP ID: 4-7)				✓	✓

DOCUMENTATION AND ANNUAL REPORTING

An annual meeting will be held to discuss the results of the past year’s stormwater management activities prior to submitting the Annual Compliance Report to the TCEQ. This meeting will include all city departments responsible for maintenance of the City’s SWMP. A copy the previous year’s Annual Report and conducted activities will be discussed and reviewed before submission of the current year’s Annual Report.

The following information will be necessary for compiling the Annual Compliance Report:

- The targeted audience or audiences involved.
- Number of distributed educationals or performed outreach activities.
- Brief description of activities and/or avenues used to support measured goals.
- Observed performance of BMPs and MCMs.
- Progress made in meeting goals and implementing BMPs.

MCM 5: STORM WATER MANAGEMENT IN NEW CONSTRUCTION / REDEVELOPMENT

PROGRAM OBJECTIVES

- Develop, implement and enforce regulations to address runoff from new development and redevelopment projects that disturb greater than or equal to one acre of land, including projects less than one acre that is part of a larger common plan of development or sale that will result in a disturbance of one or more acres
- Develop inspection procedures to ensure that control measures are in place to address runoff
- Develop guidelines and standards for structural and non-structural best management practices
- Develop plan for addressing long term operation and maintenance of implemented best management practices

PERFORMANCE MEASURES

A. Post-Construction Runoff Program Legal Authority (SWMP ID: 5-1)

Develop adequate legal authority to require post-construction control measures and maintenance of post-construction control measures in areas of new and redevelopment.

1. Develop a list of local development storm water quality related issues that require regulation including consideration of the following:- Retention of pre-development runoff characteristics- Protection of sensitive water bodies- Open space and landscaping requirements- Structural control measures or certification of no impact to hydrological regime or water quality of receiving stream(s) due to local conditions, off-site drainage features, topography, or any other verifiable characteristics
2. Develop ordinance modification to assure long term operation and maintenance of structural and non-structural control measures
3. Develop guidelines or strategies detailing each of the selected regulatory issues in Task 1.
4. Research existing legal authority available to regulate post-construction runoff.
5. If necessary, develop supplemental legal authority through ordinance, order, or other policy related legal powers to regulate post-construction runoff.
6. Develop draft regulations and educational materials necessary to inform the local development community (developers, designers, engineers, architects) of the proposed local post-construction runoff regulations.

7. Present the draft regulations to the local development community for review and comment.
8. Respond to development community comments and draft the final post-construction runoff regulations.
9. Formally adopt the final post-construction runoff regulations in accordance with all applicable public notification regulations.
10. Provide sufficient notification of the adopted post-construction runoff regulations to the local development community.
11. Enforce the post-construction runoff regulations as appropriate to regulate runoff from new and re-development projects.

Measurable Goal(s)

- Develop list of local storm water related issues to regulate
- Research legal authority for regulating post construction runoff
- Draft regulations and educational materials
- Development community review of regulations
- Adopt regulations and standards
- Enforcement of regulations

Measure Lead:

- Public Works Department.

Partner(s)

- Legal Department.
- Planning & Building Department

B. New Development and Re-development Plans Review (SWMP ID: 5-2)

Systematically review development and re-development plans to ensure compliance with local post-construction runoff regulations

1. Develop a process to obtain development construction plans for review to determine compliance with local post-construction runoff regulations.
2. Develop internal tracking and plan review procedures to ensure developer feedback and developer appeal.
3. Educate the local development community on the local development plans review process.
4. Implement the development plans review process.
5. Notify developers when revisions are made in the plan review process.
6. Maintain records of development plans reviewed and actions taken under this program.
7. Annually report on the number of plans reviewed, approved, and rejected under this program.

Measurable Goal(s)

- Develop review process and internal tracking
- Educate local development community on review process and implement
- Record maintenance of plan review and actions taken under program
- Number of plans reviewed
- Number of plans approved
- Number of plans rejected

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

C. Development Project Inspection Procedures (SWMP ID: 5-3)

Develop inspection forms and procedures for new development and re-development project inspections based on the City's post-construction runoff regulations.

1. Develop a list of items to incorporate in the inspection of development and re-development project sites based on the final post-construction runoff control regulations including consideration of the following:- Construction of controls according to approved development plans and specifications- Adherence to any legal commitment to operate or maintain permanent storm water quality structures- Conformance to open space and landscaping requirements- Conformance to any low impact development standards.
2. Develop draft inspection forms and procedures necessary to inspect new and re-development projects in order to ensure compliance with post-construction runoff regulations and approved plans.
3. Provide the local development community with an opportunity to comment on the draft inspection forms and procedures.
4. Review comments from the development community and prepare responses to comments from developers.
5. Produce the final version of the City's development project inspection forms and procedures.
6. Provide appropriate notification to the development community on the final inspection forms and procedures.

Measurable Goal(s)

- Develop inspection guidelines
- Develop inspection checklists, forms and procedures
- Local community review of guidelines
- Implement final versions of inspection guidelines

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

D. New Development and Re-development Project Inspection (SWMP ID: 5-4)

Inspect new development and re-development projects to ensure conformance to approved plans and post-construction runoff regulations.

1. Develop internal tracking procedures for tracking development projects that are under construction and that have been completed.
2. Train inspection personnel on the City's post-construction runoff regulations and final inspection procedures.
3. Inspect qualifying development project sites using adopted inspection forms and procedures to ensure conformance with post-construction runoff regulations.
4. Issue enforcement actions to owners or operators of development projects that are not in compliance with post-construction runoff regulations.
5. Maintain records of development project site inspections, enforcement actions, and corrective actions performed by development project owners.
6. Annually report on the number of development project sites inspected, and the number of enforcement actions issued.

Measurable Goal(s)

- Develop internal tracking procedures
- Train inspectors
- Inspect sites for compliance with regulations
- Maintain records of site inspections and corrective actions
- Number of development sites inspected
- Number of enforcement actions issued

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department

E. City Owned New Development and Re-development Projects (SWMP ID: 5-5)

Comply with post-construction runoff regulations and plans review requirements on City owned and operated new development and re-development projects.

1. Review City construction project planning and design criteria to determine changes needed to comply with local, state, and/or federal construction storm water regulations.
2. Prepare and distribute new development and re-development design and permitting guidelines to the local design and engineering community.
3. Conduct the development plans review process for all City owned new development and re-development projects.
4. Conduct inspections of City owned development projects in accordance with the same standards as private development project inspections.
5. Maintain records of City owned development projects approved, inspected, and records of structural control maintenance if applicable.
6. Report annually on the number of City owned projects approved, constructed, and inspected.

Measurable Goal(s)

- Review City design criteria for compliance with regulations
- Modify guidelines as needed
- Number of projects approved
- Number of projects constructed
- Number of projects inspected
- Records of structural control maintenance

Measure Lead:

- Public Works Department.

Partner(s)

- Planning & Building Department
- Parks Department

F. Protection of Sensitive and/or Impaired Water Bodies (SWMP ID: 5-6)

Identify sensitive water bodies and prohibit high impact development through zoning or natural buffer right-of-way acquisition.

1. Identify sensitive or impaired water bodies located within the City's jurisdiction and ETJ.
2. Research opportunities for zoning of buffer zones adjacent to the sensitive or impaired water bodies.
3. Develop guidelines for permitting low impact development projects in zoned areas including the consideration of the following: Hiking and biking trails- Parks and natural spaces- Development projects that minimize impervious surface areas- Residential and commercial development with adequate open space to be included in buffer zones- Projects with designed riparian corridors equivalent to buffer zones.
4. Research opportunities to acquire right-of-way adjacent to sensitive or impaired water bodies including consideration of the following:- Wetland areas near impaired waterways- Unique or critical habitat areas.
5. Formally adopt buffer zone areas as needed
6. Acquire right of way to preserve more critical buffer areas and habitats along impaired water bodies as needed.
7. Review all new and re-development projects to determine if the project boundary falls within zoned or acquired areas.
8. Maintain records of areas zoned and acquired for critical area protection.
9. Annually report on the number and location of buffer zone areas and land acquired to protect critical areas adjacent to sensitive or impaired water bodies.

Measurable Goal(s)

- Identify any sensitive or impaired water bodies
- Determine what zoning or buffers are needed, if any
- Develop guidelines for low impact development
- Adopt guidelines per watershed as needed
- Research funding for and acquire critical areas as needed
- Number of buffer zones and land acquired
- Maintain map of buffer zones or acquired land

Measure Lead:

- Public Works Department
- Planning & Building Department

Partner(s)

- Parks Department

G. Low Impact Development Standards (SWMP ID: 5-7)

Develop and promote low impact new development and re-development standards.

1. Research current standards.
2. Develop a list of low impact standards for reducing impervious surface areas in final development plans, including consideration of the following:- Maximum street widths- Cul-de-sac designs- Sidewalk widths and placement- Open space requirements- Landscaping requirements- Parking areas and fire lanes.
3. Develop low impact development guidelines and educational materials for distribution to the local development community.
4. Present the proposed standards to the local development community for review and comment.
5. Modify existing design standards to incorporate low impact development standards.
6. Ensure compliance with low impact development standards as part of the local development plan review process.
7. Maintain records of development plans reviewed for incorporation of low impact development standards.
8. Annually report on the number of development plans reviewed for the incorporation of low impact development standards.

Measurable Goal(s)

- Develop list of low impact development standards
- Develop standards for structural best management practices
- Develop program for non-structural best management practices
- Develop low impact education material for development community
- Review of standards by development community
- Number of development plans reviewed for possible low impact development

Measure Lead:

- Public Works Department
- Planning & Building Department

Partner(s)

- Parks Department

PROGRAM IMPLEMENTATION

Planned Performance Measures	Year 1	Year 2	Year 3	Year 4	Year 5
Post-Construction Runoff Legal Authority (SWMP ID: 5-1)	✓	✓	✓	✓	
New Development and Re-development Plans Review (SWMP ID: 5-2)		✓	✓	✓	✓
Development Project Inspection Procedures (SWMP ID: 5-3)			✓	✓	✓
New Development and Re-development Project Inspection (SWMP ID: 5-4)				✓	✓
City Owned New Development and Re-development Projects (SWMP ID: 5-5)			✓	✓	✓
Protection of Sensitive and/or Impaired Water Bodies (SWMP ID: 5-6)				✓	✓
Low Impact Development Standards (SWMP ID: 5-7)			✓	✓	✓

DOCUMENTATION AND ANNUAL REPORTING

An annual meeting will be held to discuss the results of the past year’s stormwater management activities prior to submitting the Annual Compliance Report to the TCEQ. This meeting will include all city departments responsible for maintenance of the City’s SWMP. A copy the previous year’s Annual Report and conducted activities will be discussed and reviewed before submission of the current year’s Annual Report.

The following information will be necessary for compiling the Annual Compliance Report:

- The targeted audience or audiences involved.
- Number of distributed educationals or performed outreach activities.
- Brief description of activities and/or avenues used to support measured goals.
- Observed performance of BMPs and MCMs.
- Progress made in meeting goals and implementing BMPs.

MCM 6: POLLUTION PREVENTION/GOOD HOUSEKEEPING

PROGRAM OBJECTIVES:

- Raise awareness about urban runoff pollution and its impact on the community's water resources.
- Promote environmentally sound approaches to reducing or eliminating the potential for pollutants to enter stormwater runoff as a result of municipal activities.
- Educate employees about pollutant sources specific to their job and what actions they can do to reduce urban runoff pollution (alternative pollution prevention solutions) within their daily operations.

PLAN IMPLEMENTATION & CONTROL MEASURES

A. Street Sweeping and Cleaning

Street sweeping activities are performed to limit litter and dust/dirt accumulation along public streets and right-of-ways. Road debris from traffic flow can add to the sediment loading of the storm drain if not properly managed. The following street sweeping BMPs are recommended to reduce runoff pollution while increasing sweeping efficiency:

Timing and Frequency

- Establish and maintain a consistent sweeping schedule.
- Avoid wet cleaning or flushing of streets, utilize dry methods where possible.
- If wet cleaning or flushing is absolutely necessary, sweep and remove debris before flushing; plug storm drain inlet and direct wash water to the sanitary sewer. Alternately, allow wash water to drain to the storm drain and collect it downstream at a manhole or storm drain cleanout.
- Adjust sweeping frequencies based on factors such as traffic volume, land use, field observations or sediment and trash accumulation, proximity to water courses, etc.

Equipment & Maintenance

- Replace old sweepers with new technologically advanced sweepers.
- Maintain cleaning equipment in good working condition.
- Use high efficiency sweepers in high sediment and trash areas (typically industrial/commercial).
- Clean sweepers at a wash rack that drains into the sanitary sewer through a pretreatment system.

Residuals Disposal

- Dispose of street sweeping debris and dirt at a landfill.
- Do not leave street sweeping debris and dirt piles along the side of the road or by a riparian area.

Measurable Goal(s):

- Number of scheduled road cleanings.
- Miles of street swept.
- Tons of debris removed by sweeper.
- Number of high efficiency sweepers used in fleet.

Measure Lead:

- Public Works Department.

B. Sidewalks, Plazas, and Municipal Parking Lot Cleaning

Materials accumulated along sidewalks and parking lots can add to the sediment loading of the storm drain system if not properly managed. Incorporating the following BMPs will aid in preventing runoff contamination from cleaning activities associated with sidewalks and parking lots:

Sidewalks, Plazas, Structures, and Parking Lot Cleaning

- Post “No Littering” signs in problem areas and enforce anti-litter laws.
- Provide litter receptacles in busy, high pedestrian traffic areas.
- Use dry methods of cleaning such as sweeping and vacuuming to clean sidewalks and other paved surfaces rather than hosing, pressure washing or steam cleaning. If water must be used, implement methods specified in Table 2 “Cleaning of Surfaces and Structures”.

Measurable Goal(s):

- Number of notices or citations issued.
- Number of trash receptacles set for pedestrian use.
- Estimated number of sidewalks, plazas, structures, and parking lots cleaned using dry methods.

Measure Lead:

- Parks & Recreation Department.

Partner(s):

- Public Works Department.

C. Medians and Other Municipal Landscaped Areas

The primary pollutants of concern from medians and other landscaped areas are sediment from erosion, nutrients from fertilizer use, organic matter (grass clippings and leaves), and heavy metals and toxic organics from pesticide/herbicide use. The following good housekeeping practices are recommended to limit runoff exposure and pollution for activities associated with municipal landscape areas:

Erosion Control

- Maintain vegetative cover on medians and embankments to prevent soil erosion. Apply mulch or leaf clippings in place to serve as additional cover.
- Avoid using disking as a means of vegetation management because the practice results in erodible barren soil.
- Provide energy dissipaters (e.g. riprap) below culvert outfalls to minimize potential for erosion.

Vegetation Management/Irrigation

- Remove clipped or pruned vegetation from gutters, paved shoulders and areas around storm drain inlets when performing vegetation pruning/removal.
- Avoid loosening the soil when conducting mechanical or manual weed control.
- Inspect irrigation systems periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Repair leaks in the irrigation system as soon as they are observed.

Pesticides

- Follow federal, state, and local laws governing the use, storage, and disposal of pesticides/herbicides.
- Use pesticides only if there is an actual pest problem (not on a regular preventative schedule).
- Avoid the use of copper-based pesticides if possible. Use the least toxic pesticide for the job if alternatives are available.
- Do not use pesticides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount of product needed for the job.

Herbicides

- Do not use herbicides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount of product needed for the job.

Fertilizers

- Minimize the use of chemical fertilizers. Use the minimum amount of product needed for the job.
- Calibrate the spreader's distributor to avoid excessive application.
- Check irrigation system in locations where fertilizer will be applied to ensure that over-watering and runoff does not occur.
- Clean pavement and sidewalk if fertilizer is spilled before applying irrigation water.

Measurable Goal(s):

- Number of environmentally friendly or nontoxic products (pesticides, herbicide, and fertilizers) used in maintenance activities.
- Frequency of inspection and performed repairs for irrigation system.
- Number of personnel trained in proper application techniques.

Measure Lead:

- Parks & Recreation Department.

D. Storm Drain Inlet/Catch Basin and Line Cleaning

Often the season's first heavy storm flushes out high volumes of pollutants into the receiving waters - resulting in adverse effects on aquatic life and water quality. It is recommended that storm drain inlets and catch basins be cleaned out before the onset of the wet season to ensure that stormwater can drain. The following practices will aid in preventing stormwater contamination and sediment loading of receiving waters from the City's storm drain system:

Storm Drain Cleaning

- Identify problem or defects in the drain system by conducting periodic visual inspections during the dry season.
- Inspect and clean all inlets and basins before onset of wet season (to ensure drainage capacity and to avoid suspension of pollutants during a storm event).
- Conduct inspections of storm drain inlets once a month or more frequently during the wet season.
- Inspect and clean storm drain pipelines and inlets in areas affected by pollutant generating incidents (spills, fires, and other events that may have released pollutants to the storm drain system and vicinity) immediately or at a minimum before the wet season.

Measurable Goal(s):

- Length of storm drain pipe cleaned regularly.
- Number of outfalls inspected and cleaned annually.
- Amount of trash, debris, and sediment removed during cleaning.

Measure Lead:

- Public Works Department.

E. Corporation Yard and Other Municipal Operation Areas

Due to the nature of activities conducted at equipment yards, mechanic shops, and other municipal operation areas, pollutants could be released into runoff. Fleet service managers have a responsibility to ensure that city vehicles are properly maintained and that byproducts (grease, oil, fluids) of vehicle maintenance are stored, transported, and disposed of properly. The following actions should be taken to protect the integrity of stormwater runoff from municipal equipment and maintenance yards:

Corporation Yard Preventative Measures

- Use drip pans and ground cloths beneath vehicles if leaks are present or when doing engine work.
- Avoid performing repairs or work in exterior areas that are exposed to rainwater.
- Inspect valves, pumps, and equipment in fueling areas weekly for leaks.
- Drain fluids from leaking or wrecked vehicles as soon as possible.
- Place bulk fluids, waste fluids and batteries in a secondary containment to capture accidental spills.
- Refer to Table 1, "Disposal of Non-Stormwater Discharges" for assistance in determining disposal options for generated wastes.

Measurable Goal(s)

- Number of employees trained in preventing pollution from automobile maintenance activities.
- Number of designated municipal vehicle washing areas.
- Number of educational materials distributed to municipal employees on fleet maintenance and prevention of runoff pollution.
- Quantity of vehicle fluids, oils, and greases recycled.

Measure Lead:

- Fleet Services Department.

F. Municipal Swimming Pools, Fountains, Lakes, and Other Water Bodies

The primary pollutant of concern in municipal (and privately owned) swimming pool water is chlorine or chloramines used as a disinfectant. This water, if discharged to the storm drain system, will be toxic to aquatic life. Additionally, algacides used to control algae for aesthetic reasons (visual and odor) in lakes, lagoons, and fountains will adversely affect receiving waters if discharged directly to storm drains and receiving waters. Incorporating the following disposal alternatives for swimming pool and fountain waters will aid in preventing stormwater contamination:

Alternate Discharge Options for Chlorinated Water

- Discharge pool water to the sanitary sewer. Alternatively, test water for chlorine level and consider using it for irrigation in a landscaped area or for dust suppression at a city construction site if connections to the sanitary sewer system are not present.
- Educate the public on proper disposal techniques for chlorinated water.

Alternate Methods to Control Algae in Lakes and Lagoons

- Reduce fertilizer use in areas around water bodies.
- Mechanically remove pond scum (blue-green algae) using a 60 micron net.
- Educate public on proper techniques for algae control.

Measurable Goal(s):

- Number of educational materials distributed to municipal employees concerning disposal of chlorinated waters and controlling algae.

Measure Lead:

- Parks & Recreation Department.

Partner(s)

- Public Works Department.

G. Spill Response and Prevention Program

All employees responsible for municipal operations subject to the pollution prevention/good housekeeping measures outlined within this control measure should receive training on reducing and/or preventing stormwater pollution from municipal operations. Training should be conducted at least once per year and documented to include a list of topics covered and persons attended. Using the Annual Employee Training Form will assist in the documentation process.

A spill response and prevention plan should be implemented stating how to stop, contain, and dispose of contaminated materials. This plan should be applicable to all sites and activities where hazardous wastes are stored or used. Employee training shall include, at a minimum:

- 1) Proper material management and handling practices for specific chemicals, fluids, and other materials used or commonly encountered in municipal operations.
- 2) Spill prevention methods.
- 3) The location of materials and equipment necessary for spill clean-up.
- 4) Spill clean-up techniques.
- 5) Proper spill reporting procedures.
- 6) Familiarization with good housekeeping measures, BMPs, and goals of the MS4.

Measurable Goal(s)

- Number of educational materials distributed to municipal employees.
- Number of preventive maintenance procedures performed on tanks, valves, pumps, pipes, and other equipment to reduce runoff exposure and/or contamination from municipal fueling stations.
- Number of personnel trained in spill response.
- Number of corrective actions for municipal spills taken each year.

Partner(s)

- Risk Management Department.
- Public Works Department.
- Water Services Department.
- Parks & Recreation Department.

PROGRAM EVALUATION AND EVALUATION

Planned Performance Measures	Year 1	Year 2	Year 3	Year 4	Year 5
Develop strategies for structural and nonstructural controls		✓			
Develop storm sewer inlet cleaning program		✓			
Develop regular street sweeping frequency program	✓	✓	✓	✓	✓
Public employees educated stormwater BMPs	✓	✓	✓	✓	✓
Hold stakeholder’s meeting, submit Annual Compliance Report	✓	✓	✓	✓	✓

DOCUMENTATION AND ANNUAL REPORTING

An annual meeting will be held to discuss the results of the past year’s stormwater management activities prior to submitting the Annual Compliance Report to the TCEQ. This meeting will include all city departments responsible for maintenance of the City’s SWMP. A copy the previous year’s Annual Report and conducted activities will be discussed and reviewed before submission of the current year’s Annual Report.

The following information will be necessary for compiling the Annual Compliance Report:

- The targeted audience or audiences involved.
- Number of distributed educational or performed outreach activities.
- Brief description of activities and/or avenues used to support measured goals.
- Observed performance of BMPs and MCMs.
- Progress made in meeting goals and implementing BMPs.

Appendix A

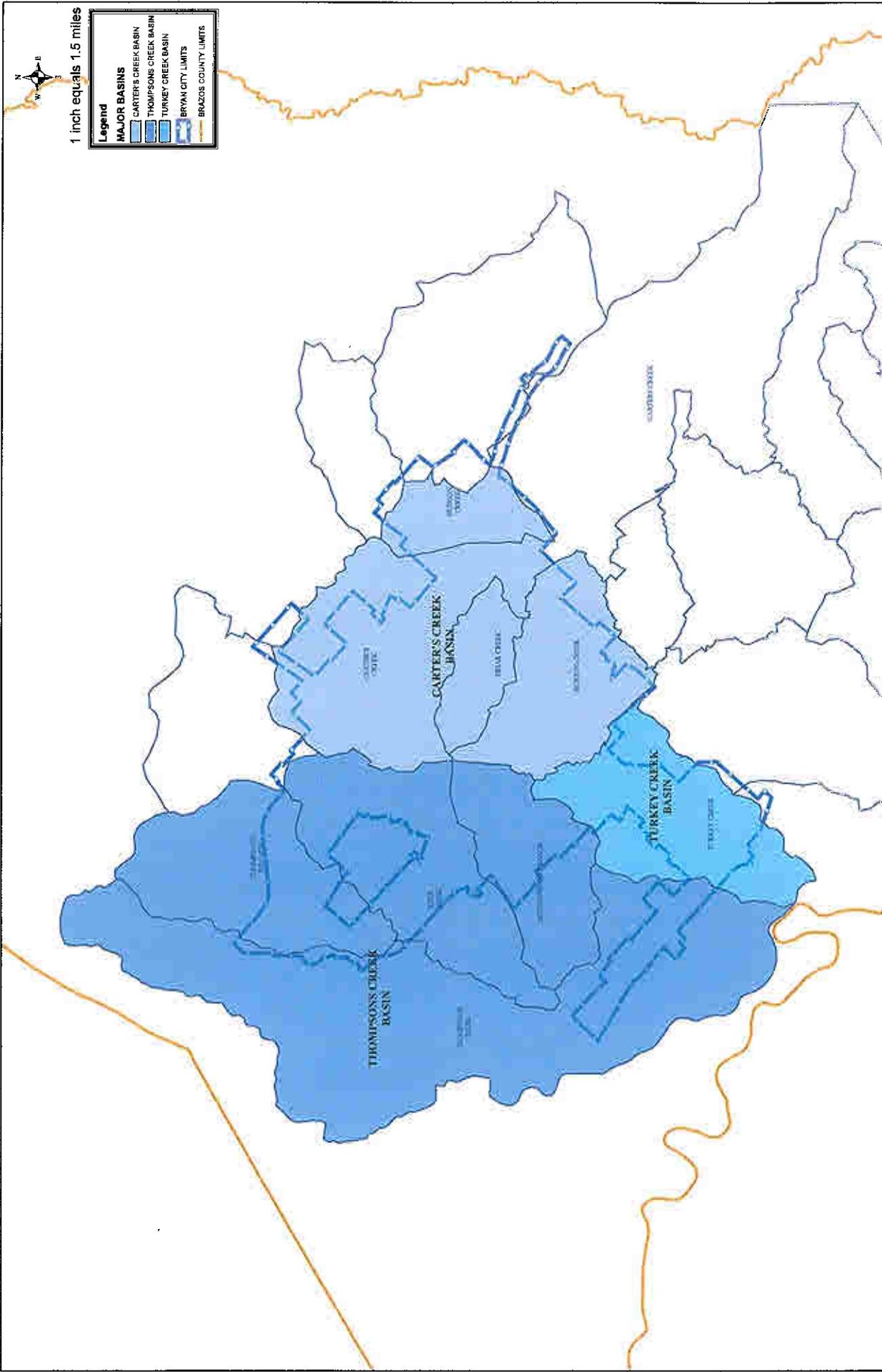
Maps



1 inch equals 1.5 miles

Legend

- MAJOR BASINS
- CARTER'S CREEK BASIN
- THOMPSONS CREEK BASIN
- TURKEY CREEK BASIN
- BRYAN CITY LIMITS
- BRACOS COUNTY LIMITS



College Station- Bryan, TX Urbanized Area Storm Water Entities as Defined by the 2000 Census

2000 Census Urbanized Areas

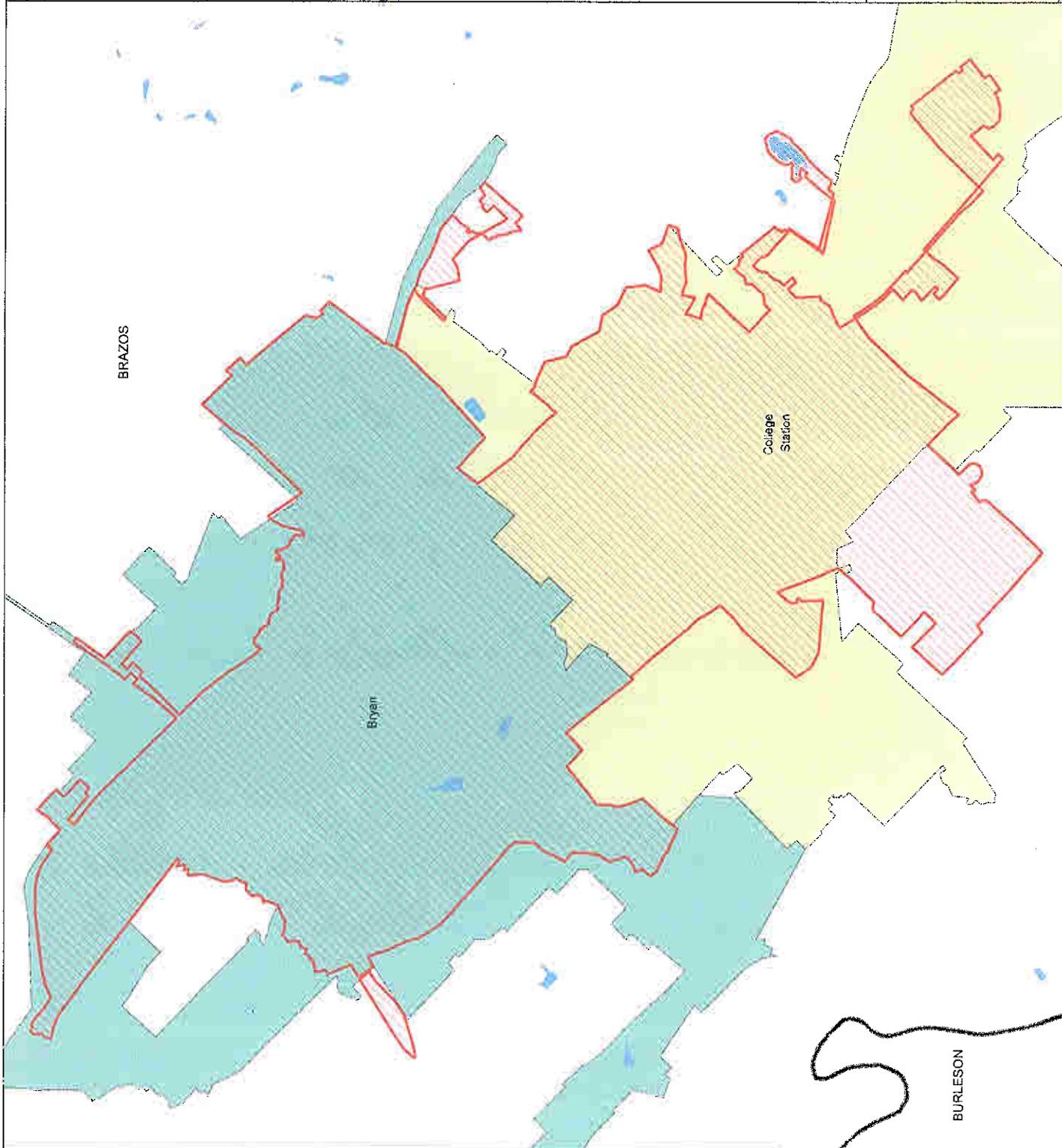
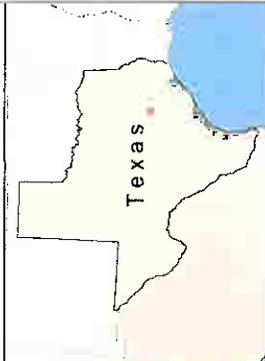
College Station-Bryan, TX

- Municipal Boundaries
- County Boundaries
- Major Waterbodies

SOURCE:
US Census Bureau TIGER data, 2000 Census

PROJECTION:
State Plane Coordinate System - Texas Central,
Horizontal datum - NAD83

MAP DESIGN:
August 27, 2002



College Station- Bryan, TX Urbanized Area Storm Water Entities as Defined by the 2000 Census

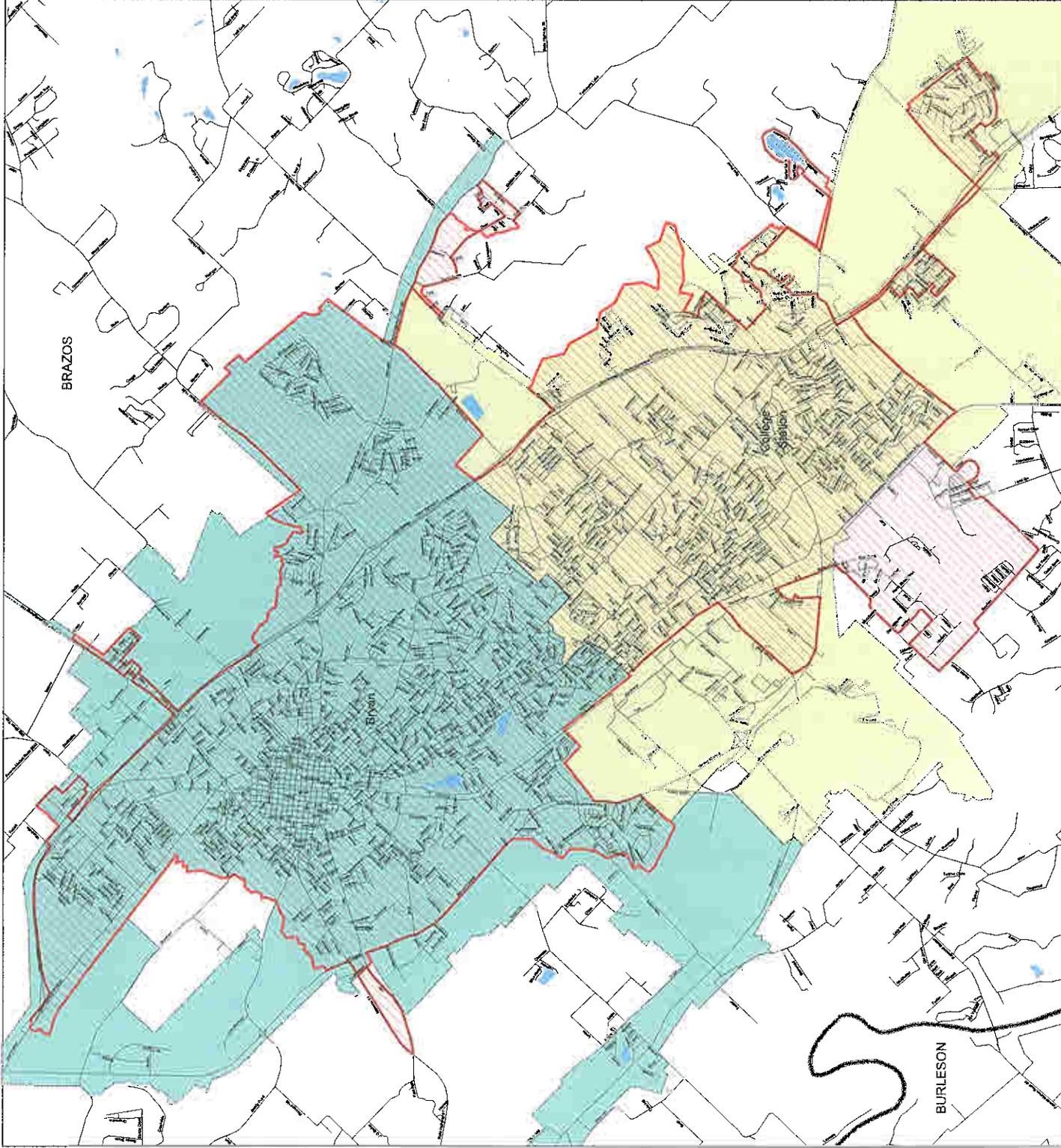
2000 Census Urbanized Areas

- College Station-Bryan, TX
- Municipal Boundaries
- County Boundaries
- Major Waterbodies
- Roads

SOURCE:
US Census Bureau TIGER data, 2000 Census

PROJECTION:
State Plane Coordinate System - Texas Central,
Horizontal datum - NAD83

MAP DESIGN:
August 27, 2002



Appendix B
Tables

Disposal of Non-Storm Water Discharges

Type of Discharge	When is the Discharge to the Storm Sewer Permissible?	Preferred Disposal Options					Note
		Storm Drain	Sanitary Sewer	Recycle/Reuse	Hazardous Waste or Other Disposal		
Residential lawn irrigation	Always ^(a)	•					
Dumping of oil, anti-freeze, paint, cleaning fluids	Never			•	•	1	
Residential car washing	Always, but not recommended ^(a)	•				2	
Commercial car washing	Never		•				
Industrial dischargers (excluding cooling water)	Never		•	•	• when above pretreatment levels	3	
Swimming pool water	Only when dechlorinated ^(a)	•	• when chlorinated	•		4	
Water line flushing	Always ^{(a)(b)}	•		•			
Fire fighting flows	Emergency only ^(c)	•			• when heavily contaminated		
Potable water sources	Always ^(a)	•		•			
1) Uncontaminated foundation drains	Always ^(a)	•		•			
1) Contaminated foundation drains	Never		•	•			
2) Pumped groundwater for cleanup operations	Only if in compliance with NPDES permit	NPDES permit required					
3) Cooling water	Never unless no chemicals added and has NPDES permit	Permit required	•	•		5	
4) Roof drains	Always except when contaminated or drains industrial area	•					
5) Air conditioner condensate	Always ^(a)	•		•			
5) Washwaters from commercial/industrial facilities	Never		•			6	
7) Uncontaminated groundwater infiltration	Always ^(a)	•		•			
3) Contaminated groundwater infiltration	Only if in compliance with NPDES permit	Permit required					

Table 1, Disposal of Non-Stormwater Discharges

Table Notes:

- (a) Dischargers are considered conditionally exempt by COB, unless they are identified by either a permittee or the executive officer as being a significant source of pollutants to receiving waters. If identified as a significant source, appropriate BMPs must be developed and implemented under the storm water management plan to minimize the adverse impacts of these sources.
 - (b) Exempt when superchlorinated or chemically cleaned; then discharge goes into sanitary sewer.
 - (c) Granted a discharge exemption by COB
- 1 The illegal dumping program should concentrate on eliminating the dumping of oil, anti-freeze, and other pollutants in industrial and commercial areas. The public education program will concentrate on eliminating dumping in residential areas.
 - 2 It would be impracticable to prevent individuals from washing their cars and the illegal dumping program should not devote resources in this area. Minimize the environmental effects of car washing by washing on permeable surfaces (gravels, lawns, etc.).
 - 3 All industrial discharges to storm drains should not be permitted. If discharge appears contaminated, then record as an illicit connection or illegal dumping.
 - 4 Chlorinated swimming pool water should not be discharged to the storm sewer. Filter back wastewater is not allowed in the storm sewer and must go to the sanitary sewer. Public education program is needed.
 - 5 Cooling water should always have a NPDES permit to discharge. Recycle is checked as a preferred option. Where practicable, industries should be encouraged to either construct cooling ponds so the water is reusable or possibly find other uses on site for the water.
 - 6 Washwaters from commercial and industrial facilities include runoff from vehicle and equipment washing, steam cleaning, and cleaning of areas used for commercial or industrial activities. Due to the wide range of washwaters from commercial facilities, disposal options should be evaluated on a facility-specific basis.

Cleaning of Surfaces and Structures

Type of Surface	Characteristics	Cleaning Technique	Discharge to Storm Drain	Disposal Alternatives
Sidewalks, Plazas	No oily deposits	Sweep, collect and dispose of debris and trash; then wash.	Okay to discharge to the storm drain.	
Sidewalks, Plazas, Driveways	Light oily deposits	Sweep, collect and dispose of debris and trash. Clean oily spots with absorbent, place oil-absorbent boom around storm drain, or a screen or filter fabric over inlet.	Okay to discharge to storm drain provided an oil-absorbent boom or filter fabric is used. No oily sheen should be visible in the water draining into the storm drain.	
Parking lots and Driveways	Heavy oily deposits	Sweep, collect and dispose of debris and trash. Clean oily spots with absorbent materials. Use a screen of filter fabric over inlet, then wash surfaces.	Seal storm drains. Cannot be discharged to the storm drain.	Direct washwater to sanitary sewer or vacuum/pump water to a tank.
Building exteriors and walls	Glass, steel, or painted surfaces (no lead paint)	Washing without soap.	Okay to discharge to storm drain provided the drain is sealed first with a fabric filter or oil-absorbent boom to capture dirt, paint particles, and flakes.	Can alternately be sent to landscaped areas.
Building exteriors	Painted with lead-based or mercury-additive paint	Washing with soap.	Seal storm drains. Cannot be discharged to the storm drain.	Direct washwater to sanitary sewer or vacuum/pump water to a tank.
Graffiti Removal	Graffiti	Washing with or without soap. Using wet sand blasting. Minimize use of water; sweep debris and sand. Using high pressure washing and cleaning compounds.	Seal storm drains. Cannot be discharged to the storm drain. Can be discharged to storm drain if washwater is filtered through a boom. Seal storm drains. Cannot be discharged to the storm drain.	Vacuum/pump to a tank. Check with POTW for discharge to sanitary sewer. Can alternately be directed to landscaped areas.
Masonry	Mineral deposits	Acid washing.	Seal storm drains. Cannot be discharged to the storm drain.	Vacuum/pump washwater to sanitary sewer. Check with POTW about pre-treatment. Rinse treated area with alkaline soap and direct washwater to a landscaped or dirt area. Alternately, washwater may be collected and neutralized to a pH between 6 and 10, then discharges to landscaping or pumped to sanitary sewer.

Table 2, Cleaning of Surfaces and Structures

Appendix C
Forms

Illicit Discharge/Elimination Field Data Sheet

General Information

Location ID#: _____ Date: _____

Location Name: _____ Time: _____

Weeks since last rain (>0.1"): <1 week 2 weeks >3 weeks

Field Site Description

Discharge Open Channel Manhole Outfall Other _____

Dominant Land Use Industrial Commercial Residential Unknown Other _____

If known, List them: _____

Flow Estimation

Flow Observed: Yes No Approximate Pipe Diameter: _____

1 Width of Water Surface (ft.) (1) _____ ft.

2 Approx Depth of Water (in.) _____ in. Divide by 12 to get feet (2) _____ ft.

3 Approx Flow Velocity (3a) _____ feet in (3b) _____ seconds OR (3a/3b) = feet per second _____ ft/s

4 Flow Rate (cubic ft./sec) = (1) x (2) x (3a/3b) = _____ cfs

Visual Observations

Photo(s) Taken	No	Yes	Roll(s) and Photo Number(s)				
Odor	None	Musty	Ammonia	Sewage	Rotten eggs	Sour Milk	Other _____
Color	Clear	Red	Yellow	Brown	Green	Grey	Other _____
Clarity	Clear	Cloudy	Opaque	Suspended Solids			
Floatables	None	Oily Sheen		Garbage/Sewage	Other _____		
Deposits/Stains	None	Sediments	Oily	Other _____			
Vegetation	None	Normal	Excessive growth		Inhibited growth		
Structural	Normal	Concrete cracking		Metal corrosion	Other _____		
Biological	Mosquito larvae		Bacteria/algae		Other _____		

Field Analyses

DO	_____ mg/L	Ammonia	_____ mg/L	Copper	_____ mg/L
Water Temp	_____ degrees C	Chlorine	_____ mg/L	Cyanide	_____ mg/L
pH	_____	Chromium (hex)	_____ mg/L	Glycol	_____ mg/L

Laboratory Sample Collected Yes No If Yes, attach a copy of chain-of-custody

Note laboratory sample ID numbers and descriptions _____

Comments

Inspector (signature)

**Public Education and Outreach
Reporting and Evaluation Form**

Summary of Public Education/Outreach Activities Sponsored/Produced 2008

EDUCATION/OUTREACH ACTIVITY:

Target Audience:

Location:

Date(s):

Was PE/O Effort Successful:

Changes for Future Efforts:

EDUCATION/OUTREACH ACTIVITY:

Target Audience:

Location:

Date(s):

Was PE/O Effort Successful:

Changes for Future Efforts:

Appendix D
Resolution

RESOLUTION NO. 3141

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BRYAN, TEXAS, AUTHORIZING THE IMPLEMENTATION OF A STORM WATER MANAGEMENT PROGRAM FOR THE CITY OF BRYAN TO MANAGE THE QUALITY OF DISCHARGES FROM THE MUNICIPAL SEPARATE STORM SEWER SYSTEM; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, Municipal Separate Storm Sewer System refers to a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) owned by the City of Bryan and designed or used for collecting or conveying storm water and not combined with sanitary sewer. This term does not include separate storm sewers in very discrete areas, such as individual buildings as long as they are not physically connected to the public storm sewer system; and

WHEREAS, the City of Bryan is dedicated to protecting the health and safety of its citizens by managing the flow and quality of the discharges from the Municipal Separate Storm Sewer System; and

WHEREAS, the Environmental Protection Agency (the "EPA") has implemented the National Pollutant Discharge Elimination System ("NPDES") to regulate the flow and quality of discharge of storm water; and

WHEREAS, under provisions of Section 402 of the Clean Water Act, the EPA has mandated that the State of Texas implement programs and processes for the purpose of meeting the requirements of the NPDES within the State's jurisdiction; and

WHEREAS, in accordance with such mandate, the State of Texas under Chapter 26 of the Texas Water Code established the Texas Pollutant Discharge Elimination System pursuant to which certain Texas municipalities, including the City of Bryan, must implement a storm water management plan that meets the specifications of the NPDES by managing the flow and quality of discharge from the City's Municipal Separate Storm Sewer System; and

WHEREAS, as part of the Texas Pollutant Discharge Elimination System, the Texas Commission on Environmental Quality issued to the City of Bryan General Permit No. TXR040000 on August 13, 2007, pursuant to which the City of Bryan must submit a Notice of Intent and a Storm Water Management Program to before February 11, 2008; and

WHEREAS, in furtherance of meeting the requirements of the Texas Pollutant Discharge Elimination System, the City of Bryan will develop and implement a Storm Water Management Program within five years from August 13, 2007; and

WHEREAS, the measures outlined above for the management of storm water in the City of Bryan promote the health, safety and welfare of the residents of the City of Bryan.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BRYAN, TEXAS AS FOLLOWS:

1.

The City will prepare and submit a Notice of Intent to the Texas Commission on Environmental Quality on or before February 11, 2008 stating the City's intent to comply with General Permit No. TXR040000 issued on August 13, 2007.

2.

The City will develop and implement a Storm Water Management Program within five years from August 13, 2007. The program will include additional ordinances and standards for all construction activities along with new development standards and storm water quality educational components.

3.

The Mayor and to the extent permitted under applicable laws and ordinances, the City Manager, shall be authorized to execute the Notice of Intent related to the Storm Water Management Program and any and all related instruments as may be required.

4.

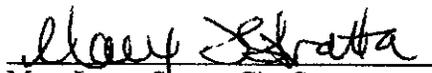
The City will enforce the Storm Water Management Program through plan review and construction inspections.

5.

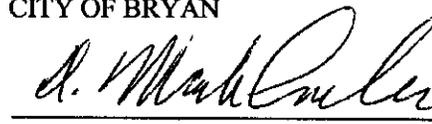
This resolution shall be effective immediately upon its adoption.

ADOPTED BY VOTE OF THE CITY COUNCIL OF THE CITY OF BRYAN, TEXAS at a regular meeting held on the 22 day of January, 2008.

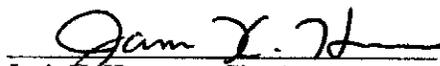
ATTEST:


Mary Lynne Stratta, City Secretary

CITY OF BRYAN


D. Mark Conlee, Mayor

APPROVED AS TO FORM:


Janis K. Hampton, City Attorney