

City of Bryan

Storm Water Management Program
Year Six Annual Report



CITY OF BRYAN
The Good Life, Texas Style.™

Prepared in accordance with TPDES General Permit TXR040000

November 10, 2013

Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

1. Permit Number TXR040336 Annual Report Year: 6

Name of MS4 / Permittee: City of Bryan

Contact Name: Mark Jurica Telephone Number: (979) 209-5932

Mailing Address: P.O. Box 1000, Bryan, Texas 77805

E-mail Address: mjurica@bryantx.gov

2. Is the named permittee relying on another entity/ies to satisfy some of its permit obligations? _____ Yes No

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

Name and Explanation: _____

Name and Explanation: _____

Name and Explanation: _____

Name and Explanation: _____

Name and Explanation: _____

3. Is the named permittee sharing a SWMP with other entities? _____ Yes No

a. If the answer to Number 3 is "Yes," list all associated permit numbers and permittee names (add additional spaces or pages if needed):

Permit Number: _____ Permittee: _____

Permit Number: _____ Permittee: _____

Permit Number: _____ Permittee: _____

Permit Number: _____ Permittee: _____

b. If the answer to Number 3 is "Yes," is this a system-wide annual report including information for all permittees?

_____ Yes _____ No

Explanation, if any _____

4. Has a copy of this annual report been submitted to the TCEQ Regional Office? Yes _____ No

B. SWMP Modifications and Additional Information.

Include a brief explanation if you check "Yes" to any of the following statements.

1. a. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review. _____ Yes No
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b. If the answer to Number 1.a. is "Yes," has the TCEQ already approved the original SWMP? _____ Yes _____ No

c. If the answer to Number 1.a. is "Yes," indicate whether an NOC (or letter) has been submitted to document the changes to the approved SWMP as required by the general permit. (Note that if an NOC is required, it must be submitted to the address shown on the NOC. Do not attach the original NOC form to this report.) __Yes __No

2. The MS4 has annexed lands since obtaining permit coverage. If "Yes," please explain. Yes _____ No

Ordinance No. 1817 – Approved July 28, 2009 – Annexed 179.59 Acres; Ordinance No. 1756 – Approved March 25, 2008 - Annexed 121.8 Acres; Ordinance No. 1942 – Approved December 6, 2011 – Annexed 350 Acres; Ordinance No. 1954 – Approved April 10, 2012 - Annexed 166.2 Acres. No changes to SWMP or BMPs will be made as a result of the annexations listed above. Copies of both ordinances and associated maps are attached with this report.

Narrative Provisions

1. Provide information on the status of complying with permit conditions:

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.		X	See Table 2 MCM Status
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	X		

2. Provide a general assessment of the appropriateness of the selected BMPs:

Has the permittee determined that any of the selected BMPs are not appropriate for reducing the discharge of pollutants in storm water? ___ Yes X No

Provide explanation: The City has reviewed the BMPs listed in the SWMP and has determined that they are all still appropriate to this date. No specific changes are anticipated at this time.

Describe progress towards reducing the discharge of pollutants to the maximum extent practicable (MEP). Summarize any information used (such as monitoring data) to evaluate reductions in the discharge of pollutants. Use a narrative description or table as appropriate:

MCM	BMP	Parameter	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (Yes / No / Explain)

Or, provide explanation below: None to date.

3. Provide a general evaluation of the program's progress, including any obstacles or challenges encountered in implementing BMPs, meeting the program's schedule, etc.:

Limited funding and resources serve as the primary obstacles for implementation and expansion of BMPs and the SWMP. Employee turnover within the City serves as a second challenge. Corporate knowledge of the SWMP is lost as a result of employee turnover.

4. Provide the number of construction activities (other than those where the permittee was the operator) that occurred within the regulated area as indicated by notices of intent or site notices:

33

5. Does the permittee utilize the optional seventh MCM related to construction? _____ Yes X No

If "Yes," then provide the following information for this permit year:

a. The number of municipal construction activities authorized under this general permit: _____

b. The total number of acres disturbed for municipal construction projects: _____

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

6. Requirements for Specific Minimum Controls Measures (MCMs):

a. For MCM 1 - Public Education and Outreach, provide documentation of activities conducted and materials used to fulfill the requirements of this MCM.

A detailed explanation of outreach and performed activities for this MCM are provided in Section D: Storm Water Management Plan Status.

b. Also for MCM 1, provide documentation of the amount of resources used to address each group (e.g., visitors, businesses, etc.).

The City expensed \$4,049.00 in promotional giveaways for the reporting period. Brochures on water conservation, inflow and infiltration, wastewater treatment, fats, oil and grease, litter control and solid waste services, and prescription drug disposal are available and dispersed to the general public. A minimum order of 1,000 of each flyer is printed annually.

A detailed explanation of outreach and performed activities for this MCM are provided in Section D: Storm Water Management Plan Status.

c. For MCM 3 – Illicit Discharge Detection and Elimination (IDDE), indicate whether you have developed a list of allowable non-storm water discharges, other than those already listed in the general permit. If you have developed a list and have made any changes to the local controls, conditions and/or programs being established for discharges, include this information below. If you do not have any changes for this permit year, indicate that this item is not applicable.

Not applicable.

7. Describe any proposed changes to the SWMP in the coming reporting year.

Staff will continue to review elements of the SWMP and weight the water quality return for adopted BMPs. Political will, financial limitations, labor force, and water quality impact will be considered for each BMPs. Satisfying requirements of the new General Permit (TXR040000) will serve as a driving force for change and modification of the SWMP.

Thompsons Creek WWTP was activated on May 6, 2013. As part of this action the existing Turkey Creek WWTP was decommissioned and the existing waste stream previously treated by Turkey Creek was routed to Thompsons Creek. Annexation was not enacted as part of this action.

Staff desires to repeal and replace its existing SWMP with new in accordance with proposed regulations outlined in the draft TXR040000 General Permit (dated 2012). As part of this effort Staff has (1) enhanced its program organization, (2) revised and added management elements, (3) incorporated provisions for discharges to impaired water bodies, and (4) strengthen city-wide program participation to reduce water quality issues within Bryan's MS4. Additionally, staff drafted facility-specific BMPs, high

risk facility SOPs, contractor requirements, and other elements to address anticipated milestones mandated by the new General Permit.

8. Describe any activities planned for the next permit year, not already described.

(1) City crews will systematically investigate drainage basins and continue dry weather inspections to determine illicit discharges to the storm sewer system. (2) Print and distribute educational materials concerning water quality and BMPs to diverse groups (homeowner associations, business community, etc.). (3) Perform city-wide education regarding the SWMP for municipal employees. (4) Expand GIS database for storm sewer base map. (5) Revise SWMP to satisfy requirements of the new General Permit. (6) Review Legal Authority. (7) Evaluate efforts for construction site inspection and construction site SWP3 review. (8) Continue preparation for release of new TXR040000 General Permit.

C. Storm Water Management Program Status

Provide the status of every BMP and measurable goal listed in the SWMP, as described in the instructions. Each MCM, but not necessarily each BMP, must include the measurable goals described in the SWMP. For a shared SWMP, include the name of the responsible MS4 operator(s) in the “BMP” column. *(Though an MS4 is not required to implement BMPs until the initial SWMP is approved by the TCEQ, the MS4’s initial annual report should include a description of what has been done to date, even if the SWMP has not yet been approved. The MS4 will receive credit for all BMPs implemented prior to and during the first permit year if they are described in the initial annual report.)*

Table 1 - BMP Status

MCM(s)	BMP	Milestones of Permit Year	New or Revised	Start Date	Status/Completion Date
1: Public Education	Distribute Outreach Materials to Targeted Groups (i.e. Residents, Industry, and Businesses)	<p>City staff met with several civic groups and neighborhood organizations to discuss stormwater quality and water quality BMPs. A dedicated link for stormwater management was added to the City’s website.</p> <p>A dual language brochure highlighting BMP topics such as fertilizer application, vehicle washing, pesticide/herbicide application, vehicle maintenance, and dry sweeping was</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<p>completed.</p> <p>Brochures highlighting BMPs and standards for construction site operation and property development were completed.</p> <p>Historically, stormwater related information was compiled in different locations within the website. Consolidation of information to a single link improves outreach efforts to web traffic.</p> <p>The City's educational library is accessible through the City's website and is available in hard copy handouts.</p>			
1: Public Education	Coordinate Annual Education Events	<p>Partnered with City of College Station to co-host the Brazos Valley Earth Day (4/2013) and Household Hazardous Waste Event (10/2012 and 4/2013).</p> <p>Partnered with Keep Brazos Beautiful (KBB) to host the annual KBB Trash Off (4/2013).</p> <p>Continued partnership with the City of College Station, Brazos County, TxDOT, and Texas A&M University for continuation of the Brazos Basin Stormwater Education Committee (BBSEC).</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
1: Public Education	Develop Public Service Announcements (PSAs) Regarding Stormwater Protection	<p>PSAs Completed</p> <ul style="list-style-type: none"> ▪ Only Rain Down the Drain 1 (7/2009) ▪ Only Rain Down the Drain 2 (7/2009) ▪ Birds and Bees (11/2009) ▪ Never Dump Tires (10/2009) ▪ Oil Dumping (10/2009) ▪ Prescription Medicine Disposal (2/2010) ▪ Water Leaks (5/2010) ▪ Don't Litter (6/2010) ▪ Code Enforcement (8/2010) 		Year 1	Completed Permit Year 2 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<ul style="list-style-type: none"> ▪ BEE Green in Bryan [KBB Summer Employee] (6/2011) ▪ BEE Green in Bryan [Campus Cleanups] (6/2011) ▪ BEE Green in Bryan [Arbor Day] (6/2011) ▪ BEE Green in Bryan [Reducing Cigarette Litter] (6/2012) ▪ No Grease in the Sewer (1/2013) ▪ Bag Your Garbage (1/2013) 			
1: Public Education	Conduct Public Service Announcements (PSAs)	PSAs are aired on the City's public information channel (Channel 16), KBTX networks (local CBS affiliate) as a random rotator, and can be accessed via the City's website, YouTube and Facebook. City staff appeared on the WTAW 1620 AM Radio Show, KORA 98.3, and Mix 104.7 to discuss code enforcement and reporting of code complaints (7/2013).		Year 2	Completed Permit Year 2 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
1: Public Education	Coordinate Adult Education Events, (Homeowner Associations, Civic, and Professional Groups)	<p>Presentations/Meeting Attendance</p> <ul style="list-style-type: none"> ▪ Plant Tour (8/2012) ▪ Texas Stream Team Certification (8/2012) ▪ Carters and Burton Creek Volunteer Sampler Meeting (8/2012) ▪ Neighborhood Night Out (10/2012) ▪ Plant Tour – Texas A&M University (11/2012) ▪ Bowen Elementary [School Presentation] (1/2013) ▪ Plant Tour - Texas A&M University (3/2013) ▪ Industrial Pretreatment Banquet (5/2013) ▪ Plant Tour – Jewel Trimble (7/2013) 		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
1: Public Education	Develop Education Partnerships with Local Schools	<p>Bryan Environmental Education (BEE)</p> <p>BEE Bins are provided free of charge to local schools and educators to provide students</p>			Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<p>with classroom exercises relating to conservation, environmental awareness, and pollution prevention. A video library on various environmental topics is also available to educators. Covered BEE Bin topics include:</p> <ul style="list-style-type: none"> ▪ Water Production ▪ Water Conservation ▪ Stormwater Runoff ▪ Recycling ▪ Litter Awareness ▪ Composting <p>BEE Bins funded by the City and issued to local schools and community groups through KBB.</p>			
2: Public Involvement & Participation	Develop Public Service Announcements (PSAs) Promoting Public Participation in the Stormwater Program	PSAs are aired on the City's public information channel, KBTX networks as a random rotator, and can be accessed via the City's website, YouTube and Facebook.		Year 2	Completed Permit Year 2 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
2: Public Involvement & Participation	Establish Stormwater Hotline	<p>The Public Works Call Center received calls from the general public and distributes work requests to the responsible department.</p> <p>The Call Center's phone number and email are solicited to the general public for all concerns. An on-line service request application dubbed "Help Bryan" is available to web traffic.</p> <p>Work orders issued for stormwater and water related issues:</p> <ul style="list-style-type: none"> ▪ Sewer Overflows – 53 ▪ Illegal Dumping – 127 ▪ Nuisance - 166 ▪ Prohibited Discharge - 96 		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
2: Public Involvement &	Perform City Clean Up Event	The City of Bryan is an executive member of KBB and supports its mission and efforts		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the

Participation		<p>through agency participation and financial funding.</p> <p>On April 13, 2013, Keep Brazos Beautiful (KBB) held its annual Trash Off Event. Approximately 2 tons of debris and 223 abandoned tires were collected and during the event. A total of 450 volunteers participated.</p> <p>2 illegal dump sites in Bryan were cleaned up by KBB. 2 tons of debris and 250 tires were removed. 60 volunteers participated.</p> <p>The Solid Waste Department employs 3 Solid Waste Assessment Workers. These employees are charged with collection of litter and loose debris from the public right-of-way. This level of service is very untypical for most municipalities. This service is provided aside from weekly garbage and heavy trash collection services.</p>			remainder of the permit term.
2: Public Involvement & Participation	Implement Storm Drain Stenciling Program	<p>This MCM is defined by: (1) Volunteer Stenciling and (2) New Development/Reconstruction.</p> <p><u>Volunteer</u> No volunteer activity to date has been performed for this MCM.</p> <p><u>New Development/Reconstruction</u> The City's design standards require storm sewer inlet and manhole lids installed after 2003 to display a general "dump no waste" message. The following number of inlets within the City' system is provided below:</p> <p>Pre 2003 Inlets: 1,213 Post 2003 Inlet: 3,389</p> <p>1,000 storm drain markers were installed to</p>		Year 1	Completed Permit Year 5 - this MCM is a continuous effort that will be performed for the remainder of the permit term.

		pre 2003 inlets in the previous reporting period leaving an estimated 213 inlets to be marked. 500 inlets markers were ordered this reporting period. 300 markers were installed			
3: Illicit Discharge & Detection Elimination	Develop Storm Sewer Map	Water Services, Engineering Services, Streets and Drainage, and the Information Technology Departments are continually working to update and amend the storm sewer base map.		Year 2	Completed Permit Year 1 – the City maintains a base map of its storm sewer in GIS. The base map was originally created in the late 1990s. As built plans are added to the base map as project data becomes available. Further attention is needed to validate data points and increase user-friendliness. Expansion of layers within the base map to better capture SWMP activity is a focus point that will carry into the next General Permit.
3: Illicit Discharge & Detection Elimination	Develop Stormwater Ordinance to Support SWMP	<p>City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.</p> <p>City of Bryan Ordinance No. 1923 governing industrial pretreatment standards was approved on July 18, 2011.</p> <p>City of Bryan Ordinance No. 1920 governing sewer use was approved on June 14, 2011.</p> <p>City of Bryan Ordinance No. 1950 governing demolition and closure standards for abandoned sewer lines was approved on</p>		Year 1	Completed Permit Years 3, 4 & 5

		<p>March 27, 2012.</p> <p>City of Bryan Ordinance No. 1991 governing water usage was approved on April 30, 2013. Ordinance No. 1991 is provided with this report because it was adopted during the current reporting period.</p>			
3: Illicit Discharge & Detection Elimination	Implement Facility Inspection and Discharge Detection Training for Public Employees	<p>Facility inspections for illicit discharges are a shared responsibility between field staff within Public Works and Development Services. Inspector knowledge for facility inspection and discharge detection is a combination of (1) on the job training, (2) professional training opportunities (TEEX, TWUA, etc.), (3) internal training opportunities, and (4) recognized industry practices.</p> <p>The City employs a committed Plumbing Inspector who oversees plumbing installations and repairs to ensure all work is made in compliance with the City's plumbing code.</p> <p>Smoke testing, dye testing, and closed circuit television (CCTV) are tools available for identification of illicit connections to the sanitary sewer and storm sewer systems.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
3: Illicit Discharge & Detection Elimination	Recycling Program for Household Hazardous Waste (HHW)	<p>HHW collection events are held twice per year (10/2012 & 4/2013) for citizens living within the 7 county region: Brazos, Burleson, Robertson, Leon, Grimes, Washington, and Madison.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
3: Illicit Discharge & Detection Elimination	Program to Detect and Eliminate Sanitary Sewer Overflows	<p>City of Bryan field crews smoke tested 28.8 miles of sanitary sewer pipe for system defects and illicit connections to the sanitary sewer system.</p> <p>City of Bryan field crews cleaned 92.5 miles of sanitary sewer pipe.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<p>The City of Bryan renewed its partnership with Service Line Warranties of America (4/2013) to provide a private sewer line warranty program to assist homeowners with repair and maintenance of private sewer lines. Participation rates are provided below:</p> <ul style="list-style-type: none"> ▪ 1,416 Households Enrolled (2011) ▪ 630 Households Enrolled (2012) ▪ 397 Households Enrolled (2013) ▪ 122 Claims Filed and Claims Paid <p>The City of Bryan's Sewer Line Assessment Program (SLAP) was established with revision of the Sewer Use Ordinance (7/2011). Field data (smoke testing, dye testing, CCTV) is used to identify system defects. Measure performance within the SWAP (August 2012 – August 2013) includes:</p> <ul style="list-style-type: none"> ▪ 474 private defects identified ▪ 161 public defects identified ▪ 72 defects needing further investigation/determination identified <p>The City of Bryan is enrolled in TCEQ's Sanitary Sewer Overflow Initiative (SSOI) and has enacted a CMOM (Capacity, Maintenance, Operation, and Management) Plan for its sanitary sewer system (7/2009).</p>			
3: Illicit Discharge & Detection Elimination	Storm Sewer System Inspection for Dry Weather Flows	221 culvert and storm sewer-related work orders were completed.		Year 1	Measure Initiated Permit Year 1 - the SWMP identifies an inspection frequency as "annually" for inspection of the City's storm sewer outfalls for dry weather flows, abnormalities, and water quality concerns. Actions performed under this measure for the current General Permit term center on inlet and manhole cleaning/repair opposed to the SWMP's intent for this measure. Limited attention was paid to outfall inspections and conditions as addressed by the SWMP.

					<p>Performed work for inlet and manholes are documented to an electronic work order system. As-built drawings and details for new construction of the storm sewer is added to the base map as information comes available. The storm sewer map does not identify sector-specific outfall information (i.e. industrial corridors, residential, etc.). Additionally, record of dry weather inspections and activities associated with management of MS4 outfalls is not available. Element performance and completion as outlined in the SWMP is not fully implemented.</p>
4: Construction Site Runoff Control	Establish Legal Authority	City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.		Year 1	<p>Completed Permit Year 3 – this MCM is a continuous effort that will be performed for the remainder of the permit term.</p>
4: Construction Site Runoff Control	Construction Site Runoff Control Inspection Procedure	All general site civil construction sites (subdivisions, large commercial sites) were inspected by Engineering Inspectors. Inspectors point out issues that they observe to the contractors for corrective action.		Year 1	<p>Completed Permit Year 1 - construction site inspections are included as part of the City's overall inspection procedure for new construction. Completion of a formal inspection log (i.e. paper trail) is a continual work in progress. Completed stormwater inspections for new construction are complaint-driven and are "reactionary" to input received from the general public, city departments, or pass through observations made by inspection personnel.</p> <p>The City does not issue discharge permits or other permits to developers, contractors, etc. regarding stormwater. Staff reviews stormwater pollution prevention plans (SWP3) and other information supplied by developers, contractors, etc. performing new construction. Feedback from the City is provided for SWP3s not providing adequate protection and control for stormwater runoff and overall water quality.</p> <p>105 facility inspections were completed this review period.</p>

					Staff is continuing efforts to streamline and improve data consolidation of site inspections, enforcement actions, and review comments for SWP3s. Modification of the existing form and processes will continue to evolve with issuance of the new General Permit.
4: Construction Site Runoff Control	Construction Inspection Procedures	Inspectors review construction sites for stormwater related concerns as part of their overall inspection procedure unless circumstances require a focused stormwater inspection be performed.		Year 1	See Status/Completion for Construction Site Runoff Control Inspection listed above.
4: Construction Site Runoff Control	Construction Plans Review	The City's Site Development Review Committee (SDRC) process is practiced for plans review and approval of development projects. A total of 55 site plans were reviewed by SRDC this review period. When applicable, stormwater pollution prevention plans are received and reviewed as part of the SDRC processes. An engineering plans review log was established to track the number of public infrastructure construction plans reviewed through this process. 36 engineering plans were reviewed.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
4: Construction Site Runoff Control	Construction Community Education	Contractors employed by the City are informed at pre-construction meetings of the requirements as the contract documents are reviewed. Contractors for development-related sites are educated when pre-construction meetings happen for those projects as well as discussions with the City's Engineering Inspectors and Engineers. New Design Guidelines have been added to the B/CS Unified Design Manual in the stormwater quality section with specific guidance given to the order of the BMP		Year 3	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		implementations. A copy of these standards is provided with this report.			
4: Construction Site Runoff Control	City Owned Construction Sites	Boiler plate contract documents require compliance with local, state and federal construction stormwater regulations for city-owned and operated construction sites.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
5: Stormwater Management in New Construction & Redevelopment	Post-Construction Runoff Legal Authority	City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.		Year 1	Completed Permit Year 3 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
5: Stormwater Management in New Construction & Redevelopment	New Development and Redevelopment Plans Review	The City's Site Development Review Committee (SDRC) process is practiced for plans review and approval of development projects. A total of 55 site plans were reviewed by SRDC this review period. When applicable, stormwater pollution prevention plans are received and reviewed as part of the SDRC processes.		Year 3	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
5: Stormwater Management in New Construction & Redevelopment	Development Project Inspection Procedures	A continued focus is placed by Engineering Inspectors on new and redevelopment sites during the warranty period following project completion/acceptance (1 year).		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term. 105 facility inspections were completed this review period. Staff is continuing efforts to streamline and improve data consolidation of site inspections, enforcement actions, and SWP3 comments/review. Modification of the existing database and processes will continue to evolve with issuance of the new General Permit.
5: Stormwater Management in New Construction & Redevelopment	City Owned New Development and Redevelopment Projects	These types of projects are usually Capital Improvement Projects (CIP). All CIP projects are required contractually to comply with local, state and federal construction stormwater regulations for city-owned and operated construction sites. City development projects (buildings or facilities) go through the SDRC process for plan		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		review.															
5: Stormwater Management in New Construction & Redevelopment	Low Impact Development Standards	Open space requirements from Land and Site Development Review Ordinance require 15% open space with each development.		Year 1	Staff has discussed the addition of a buffer requirement along natural channels with the committee overseeing the preparation of our Flood Mitigation Plan update. The current requirement was found to be acceptable but expanding the buffer offers some advantages. This additional requirement will be discussed during the next joint design guideline revisions between the cities of Bryan and College Station. This may not happen for a couple of years, but it is documented as a goal in the Flood Mitigation Plan.												
6: Pollution Prevention and Good Housekeeping	Develop storm sewer inlet cleaning program	Public drainage systems (culverts, inlets, creeks, etc.) are inspected and cleaned on a regular basis by Streets & Drainage and Engineering personnel. Close attention is given to facilities in/near construction sites and other high impact areas. Work orders submitted on as-needed basis to perform necessary cleaning.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.												
6: Pollution Prevention and Good Housekeeping	Develop Regular Street Sweeping Frequency Program	All streets with a curb are scheduled to be swept 4 times per year equaling about 7,100 miles (estimated 80 tons of debris collected per year). The City currently has 2 high efficiency sweepers on route and 1 standby unit.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.												
6: Pollution Prevention and Good Housekeeping	Medians and other Municipal Landscaped Areas	<p>The Solid Waste Department employs 3 Solid Waste Assessment Workers. These employees are charged with collection of litter and loose debris from the public rights-of-way. This level of service is very untypical for most municipalities. Calendar year totals for the Assessment Workers are below:</p> <table border="0"> <tr> <td>Miles Traveled</td> <td>2012</td> <td>2013</td> </tr> <tr> <td></td> <td>1,239</td> <td>2,492</td> </tr> <tr> <td>Stops Cleaned</td> <td>2012</td> <td>2013</td> </tr> <tr> <td></td> <td>285</td> <td>575</td> </tr> </table> <p>Contractors are employed by the Parks and</p>	Miles Traveled	2012	2013		1,239	2,492	Stops Cleaned	2012	2013		285	575		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
Miles Traveled	2012	2013															
	1,239	2,492															
Stops Cleaned	2012	2013															
	285	575															

		<p>Recreation Department for litter abatement and emptying of pedestrian trash containers located in Downtown Bryan. Service is provided 4 times per month. Demand services are available as needed. Parks and Recreation team up with the Solid Waste Department to provide service to Downtown 3 times per week. Routine cleaning of public parks and park facilities is provided through contract.</p> <p>Right-of-way (ROW) mowing and maintenance is performed by City staff. Litter and debris are removed prior to mowing. Herbicide is applied on a limited basis. The City employs 2 Texas Department of Agriculture Licensed Applicators.</p>			
6: Pollution Prevention and Good Housekeeping	Storm Drain Inlet/Catch Basin and Line Cleaning	51 creek-related work orders for storm sewer inlet cleaning were completed.		Year 3	<p>Measure Initiated Permit Year 1 - inlet and line cleaning is work order driven and is performed as a result of system failures and citizen complaints. The SWMP specifies that length of pipe and the number of outfalls cleaned and inspected be recorded. These variables are steering tools used for management and operation of the MS4. Work orders for inlet and line cleaning are able to capture the number of events. Field crews determine what results and findings are transposed to the work order. A standard activity or inspection form for this activity does not exist. Adoption of a standard form ensures uniformity data collection and reporting.</p> <p>A formal cleaning and inspection schedule for storm sewer pipe and inlets is not established. Cleaning and inspection activities are predominately performed in reaction to citizen complaints, service interruptions, and corporate knowledge of known trouble spots.</p> <p>Creation of a service schedule for system</p>

					cleaning and inspection is underway. Likewise, staff is working to adopt a standard activity or inspection form and establishment of a central database for compiled data. These actions will be carried forward to the new permit term.
6: Pollution Prevention and Good Housekeeping	Corporate yard and other Municipal Operation Areas	<p>Employees of the Fleet Services Department are trained on pollution prevention and proper disposal and storage of waste. Performed services (repair, parts storage, fluids storage, and waste containment/disposal) are performed under cover.</p> <p>Used oils and fluids from vehicle maintenance are recycled if service is available. The City has established agreements for collection and removal of used oil, oil filters, and used cooking grease.</p> <p>The City operates two designated vehicle wash bays for equipment wash down. A girt trap is used for pretreatment of wash water. Both bays are connected to the sanitary sewer.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
6: Pollution Prevention and Good Housekeeping	Municipal swimming Pools, Fountains, Lakes, and other Water Bodies	The City operates 3 swimming pools and 3 splash pads.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
6: Pollution Prevention and Good Housekeeping	Spill Response and Pollution Prevention	<p>The City of Bryan's Fire Department is trained in spill prevention and response. Additionally, HAZWHOPER training is provided to members of the City's Hazardous Materials Response Team and inspectors involved with illegal dump sites and clean up. These departments includes: Water Services, Environmental Services, and Transportation.</p> <p>The City operates three fuel sites (Waco Street, Fountain Street, and Coulter Airfield).</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		Fountain Street possesses above ground fuel tanks. A Spill Prevention Control and Countermeasure (SPCC) Plan was drafted for Fountain Street (11/2010). The SPCC Plan establishes corrective actions and references required procedures for spill prevention and response.			
6: Pollution Prevention and Good Housekeeping	Public Employee Education (Stormwater BMPs)	<p>City staff is required to attend monthly safety meetings to receive information on various topics relating to employee safety. Hazard Communication was covered on 1/2013. Chemical handling, emergency response, site approach, waste storage and disposal, and material data safety sheets (MSDS) were covered topics.</p> <p>The City maintains 3 Industrial Stormwater Permits (Burton Creek WWTP, Still Creek WWTP, and Coulter Airfield). Annual training in general aspects of each permit is provided to site staff.</p> <p>Activity-specific SOPs and BMPs were drafted and will be shared with department leaders and personnel responsible for activities covered by the SOPs and BMPs. Additionally, these documents will be used to satisfy expected training requirements anticipated in the new General Permit. The following SOPs and BMPs were drafted:</p> <ul style="list-style-type: none"> ▪ Fleet and Vehicle Operations ▪ Fertilizers, Herbicides, and Pesticides ▪ Golf Course and Swimming Pools ▪ Parking Lot Maintenance ▪ Street and Road Repair ▪ Waste Management ▪ Street Construction and Utility Installation ▪ Outdoor Materials Storage ▪ Storm Drain System Maintenance 		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

6: Pollution Prevention and Good Housekeeping	Municipal Parks Clean Up	<p>Employees of the Fleet Services Department are trained on pollution prevention and proper disposal and storage of waste. Maintenance service (repair, parts, fluids, and waste) are under cover.</p> <p>100% of motor oils and fluids (recyclable) resulting from equipment maintenance are captured and removed by a service provider.</p> <p>The City operates two vehicle wash bays which are connected to the sanitary sewer.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
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Table 2 - MCM Status			
MCM(s)	Measureable Goal(s)	Success	Proposed Changes (Submit NOC as needed)
1	Increase education efforts within schools, community groups, and city-wide.	<p><u>Met goal.</u> Various brochures and pamphlets have been created in English and Spanish. Educational opportunities are plentiful. Partnerships are established between the Cities of Bryan and College Station, Brazos County, and Texas A&M University.</p> <p>See above pages 18-21 for accomplishments and MCM performance.</p>	None
2	Storm drain stenciling program	<p><u>Met goal.</u> 1,000 storm drain markers were installed to pre 2003 inlets (unmarked inlets). Approximately 200 pre 2003 inlets remain unmarked. Additional markers have been ordered and will be installed onto the remaining unmarked inlets. Post 2003 inlets are marked with a general "Dump No Waste"</p>	None

		<p>message as a standard design detail.</p> <p>See above pages 22-23 for accomplishments and MCM performance.</p>	
3	Enforcement of illicit discharges and connections	<p><u>Met goal.</u></p> <p>City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.</p> <p>City of Bryan Ordinance No. 1923 governing industrial pretreatment standards was approved on July 18, 2011.</p> <p>City of Bryan Ordinance No. 1920 governing sewer use was approved on June 14, 2011.</p> <p>City of Bryan Ordinance No. 1950 governing demolition and closure standards for abandoned sewer lines was approved on March 27, 2012.</p> <p>City of Bryan Ordinance No. 1991 governing water usage was approved on April 30, 2013.</p> <p>Work order requests for SSOs and sewer/facility inspections are tracked.</p> <p>SSO events are cataloged and mapped in GIS.</p> <p>Proactive smoke testing of sanitary sewer is performed and mapped.</p> <p>Sanitary sewer systems as built drawings, pipe sizes, manhole lids, etc. are mapped in GIS.</p> <p>City of Bryan's SSOI Report is provided with this report.</p> <p>See above pages 23-25 for accomplishments</p>	None

		and MCM performance.	
3	Storm Sewer System Inspection for Dry Weather Flows	<u>Did not meet goal.</u>	<p>The SWMP identifies an inspection frequency as “annually” for inspection of the City’s storm sewer outfalls for dry weather flows, abnormalities, and water quality concerns. Actions performed under this measure for the current permit period center on inlet and manhole cleaning or repair opposed to intent of this measure. Limited attention was paid to outfall inspections and conditions as addressed by the SWMP.</p> <p>Performed work for inlet and manholes are documented to an electronic work order system. As-built drawings and details for new construction of the storm sewer is added to the base map as information comes available. The storm sewer map does not identify sector-specific outfall information (i.e. industrial corridors, residential, etc.). Additionally, record of dry weather inspections and activities associated with management of MS4 outfalls is not available. Element performance and completion as outlined in the SWMP is not fully implemented.</p> <p>Action is underway to remedy shortfalls in this MCM to ensure SWMP requirements are carried out through the remaining term of the current permit period and into the next.</p>
4	Construction Inspection Procedures	<p><u>Goal met.</u> Contractors employed by the City are informed at pre-construction meetings of the requirements as the contract documents are reviewed.</p> <p>Contractors for development-related sites are educated when pre-construction meetings happen for those projects as well as discussions with the City’s Engineering Inspectors and Engineers.</p> <p>New Design Guidelines have been added to the B/CS Unified Design Manual in the stormwater quality section with specific guidance given to the order of the BMP implementations.</p> <p>See above pages 26-28 for accomplishments</p>	None

		and MCM performance.	
5	Develop guidelines and standards for structural and nonstructural best management practices	<p><u>Goal met.</u> The City's Site Development Review Committee (SDRC) process is practiced for plans review and approval of development projects. A total of 55 site plans were reviewed by SRDC this review period. When applicable, stormwater pollution prevention plans are received and reviewed as part of the SDRC</p> <p>All CIP projects are required contractually to comply with local, state and federal construction stormwater regulations for city-owned and operated construction sites. City development projects (buildings or facilities) go through the SDRC process for plan review.</p> <p>New Design Guidelines have been added to the B/CS Unified Design Manual in the stormwater quality section with specific guidance given to the order of the BMP implementations.</p> <p>See above pages 28-29 for accomplishments and MCM performance.</p>	None
6	Pollution Prevention	<p><u>Goal met.</u> Staff participates in annual clean up events in conjunction with Keep Brazos Beautiful.</p> <p>Monthly safety meetings are performed by the Risk Management Department. General topics focusing on chemical use/application and general BMPs are discussed.</p> <p>State-registered chemical (herbicide and pesticide) applicator licenses are maintained lead staff in the Transportation and Parks & Recreation Departments.</p>	<p>Inlet and line cleaning is work order driven and is performed as a result of system failures and citizen complaints. The SWMP specifies that length of pipe and the number of outfalls cleaned and inspected be recorded. These variables are steering tools used for management and operation of the MS4. Work orders for inlet and line cleaning are able to capture the number of events. Field crews determine what results and findings are transposed to the work order. A standard activity or inspection form for this activity does not exist. Adoption of a standard form ensures uniformity data collection and reporting.</p> <p>A formal cleaning and inspection schedule for storm sewer pipe and inlets is not established. Cleaning and inspection activities are predominately performed in reaction to citizen complaints, service</p>

		<p>SPCC Plan was established for the Fountain Street Fuel Island.</p> <p>See above pages 29-33 for accomplishments and MCM performance.</p>	<p>interruptions, and corporate knowledge of known trouble spots.</p> <p>Creation of a service schedule for system cleaning and inspection is underway. Likewise, staff is working to adopt a standard activity or inspection form and establishment of a central database for compiled data. These actions will be carried forward to the new permit term.</p>
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D. Certification

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

Name (printed): Mark Jurica

Title: Treatment & Compliance Manager

Signature: 

Date: August 19, 2013

Name (printed): Eric Zaragoza

Title: Environmental Services Manager

Signature: 

Date: 8/14/13

Name (printed): Paul Kaspar, P.E.

Title: City Engineer

Signature: 

Date: 8/26/13

Name (printed): Jayson Barfknecht, PhD., P.E.

Title: Public Works Director

Signature: 

Date: 08/19/2013

Name (printed): Kean Register

Title: City Manager

Signature: 

Date: 8/27/2013

Add pages as needed.