

PHASE II MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

# City of Georgetown

---

## Year 3 Report

**David Morgan, City Manager**

12/19/2016

Texas Commission on Environmental Quality  
Stormwater & Pretreatment Team Leader (MC-148)  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: Phase II MS4 Annual Report Transmittal for the City of Georgetown, Texas  
TPDES Authorization: TXR040487

Dear Team Leader:

This letter serves to transmit the required annual report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization Number TXR040487 for the City of Georgetown, Texas.

The annual report is for Year 3. The reporting period began 10/01/2016 and ended 09/30/2017.

A separate Notice of Change has not been submitted based on the fact that changes have not been proposed for the next permit year.

As required by the general permit, a copy of the report has been mailed to the TCEQ's regional office 11 in Austin, Texas.

Sincerely,  
Tiffany Hunter  
(E) [tiffany.hunter@georgetown.org](mailto:tiffany.hunter@georgetown.org)  
(W) (512) 930-8177  
Georgetown Utility Systems  
300-1 Industrial Ave.  
Georgetown, Texas 78628

## Contents

|  |    |
|--|----|
| Phase II (Small) MS4 Annual Report Form .....          | 4  |
| TPDES General Permit Number TXR040000 .....            | 4  |
| A. General Information .....                           | 4  |
| B. Status of Compliance with the MS4 GP and SWMP ..... | 5  |
| C. Stormwater Data Summary .....                       | 29 |
| D. Impaired Waterbodies .....                          | 29 |
| E. Stormwater Activities .....                         | 32 |
| F. SWMP Modifications .....                            | 42 |
| G. Additional BMPs for TMDLs and I-Plans .....         | 42 |
| H. Additional Information .....                        | 43 |
| I. Construction Activities .....                       | 43 |
| J. Certification .....                                 | 44 |
| K. Exhibits .....                                      | 45 |

## Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

### A. General Information

Authorization Number: TXR040487

Reporting Year 3

Annual Reporting Year Option Selected by MS4:

Calendar Year \_\_\_\_\_

Permit Year \_\_\_\_\_

Fiscal Year: \_\_\_\_\_X\_\_\_\_\_ Last day of fiscal year: (9/30/2017)

Reporting period beginning date: (month/date/year) 10/01/2016

Reporting period end date (month/date/year) 09/30/2017

MS4 Operator Level: 2 Name of MS4: City of Georgetown

Contact Name: Tiffany Hunter Telephone Number: 512-930-8177

Mailing Address: 300-1 Industrial Ave, Georgetown Texas 78628

E-mail Address: tiffany.hunter@georgetown.org

A copy of the annual report was submitted to the TCEQ Region YES X NO \_\_\_\_\_  
Region the annual report was submitted. TCEQ Region 11

## B. Status of Compliance with the MS4 GP and SWMP

1. Provide information on the status of complying with permit conditions:  
(TXR040000 Part IV Section B.2.):

|   | Yes | No | Explain |
|---|-----|----|---------|
| Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.  | X   |    |         |
| 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. You may use the table below (See Example 1 in instructions):

| <b>MCM(s)</b>   | <b>BMP</b>  | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>   |
|---|---|--|
| <i>1.0 Public Education, Outreach &amp; Involvement</i> | Develop a public education and outreach campaign focused on the reduction of the bacteria, floatables and fertilizer.   | Yes, the Big 3: bacteria, floatables, and fertilizer have been placed on the City's stormwater webpage, on City social media accounts, and as articles in the City Reporter. |
| <i>1.1 Public Education, Outreach &amp; Involvement</i> | Acquire, create or support the creation of public education and outreach materials focused on garden and lawn care education.   | Yes, education and outreach materials were placed on the City's stormwater webpage and social media.   |
| <i>1.2 Public Education, Outreach &amp; Involvement</i> | Continue to collect Household Hazardous Waste from residents at designated facilities. Refine communication efforts to maximize citizen participation in proper disposal. | Yes, the City has a very effective hazardous waste recycling program and has promoted the program on the website as well as on social media.                                 |
| <i>1.3 Public Education, Outreach &amp; Involvement</i> | Acquire, create or support the creation of public education and outreach materials focused on use of less toxic alternatives.   | Yes, the City has developed education and outreach materials to the webpage and on social media.   |

| <b>MCM(s)</b>   | <b>BMP</b>  | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>  |
|---|---|---|
| <i>1.4 Public Education, Outreach &amp; Involvement</i> | Staff shall develop a program to recruit and manage volunteer efforts to install inlet markers throughout the city. Volunteers will be educated about water quality impacts.  | Yes, the City has prepared/acquired inlet marking materials and educated staff/volunteers on the planning and procedures for events.                              |
| <i>1.5 Public Education, Outreach &amp; Involvement</i> | Acquire, create or support the creation of public education and outreach materials to be distributed in target neighborhoods to explain the purpose of the recent inlet marker installation and concepts associated with "drains to creek". | Yes, the City has acquired education and outreach materials about inlet marking that clearly explains the connection to nearby streams and preventative measures. |

| <b>MCM(s)</b>   | <b>BMP</b>  | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b> |
|---|---|--|
| <i>1.6 Public Education, Outreach &amp; Involvement</i> | Establish procedures for recruiting volunteers, identifying public spaces, facilitating clean-up and documenting activities. Volunteers will be educated about water quality impacts.   | Yes,   |
| <i>1.7 Public Education, Outreach &amp; Involvement</i> | Continue to promote multiple tree planting events. Staff shall develop/acquire and provide supplemental materials to make the connection between tree planting and creek water quality. | Yes,   |



| <b>MCM(s)</b>  | <b>BMP</b>   | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>   |
|--|--|--|
| <i>1.8 Public Education, Outreach &amp; Involvement</i>  | Create survey to be utilized for this permit term. Conduct initial survey and analyze responses. If warranted, revise outreach articles and materials in response to initial survey. | Yes, the City identified education and outreach material revisions based on the survey results and has begun to make revisions.  |
| <i>1.9 Public Education, Outreach &amp; Involvement</i>  | Continue FOG (Fats, Oil or Grease) campaign. Refine communication efforts to maximize citizen awareness.   | Yes, between 10/1/2015-9/30/2016, the FOG website has received 28 page views, 26 of which were unique.   |
| <i>1.10 Public Education, Outreach &amp; Involvement</i> | Make SWMP publicly available.  | Yes, the City has posted the Plan and program details to the City's website. Since posting, the webpage received 264 page views, up from 25 views last reporting period. The MS4 Coordinator and webmaster have established website analytics to provide monthly reporting. Both parties routinely review the analytics to ensure effective communication and availability of the City's SWMP. |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>  |
|---|--|---|
| <p><i>2.0 Illicit Discharge Detection And Elimination</i></p> | <p>Review and revise, if needed, relevant ordinance(s) to provide authority to: prohibit illicit discharges and illicit connections, respond to and contain other releases, and prohibit dumping or disposal of materials other than stormwater.</p> | <p>Yes, through review the City has identified revision needs in both the Construction Specifications and Standards, the Unified Development Code and has adopted an Illicit Discharge Ordinance – Sec 13.30 <i>ILLICIT DISCHARGES OF POLLUTANTS INTO THE MS4 OR CONVEYANCES</i>.</p> |
| <p><i>2.1 Illicit Discharge Detection And Elimination</i></p> | <p>Develop written procedures for responding to illicit discharge complaints. Create and maintain a complaint hotline database. Begin investigations of complaints as they are received.</p>   | <p>Yes, complaint and response procedures have been adopted and executed.</p>   |
| <p><i>2.2 Illicit Discharge Detection And Elimination</i></p> | <p>Continue to update the City's storm drain map as needed with identification of new, altered, and newly discovered storm drain features.</p>   | <p>Yes, the City's data collection and mapping efforts have increased through MS4 YR 2 efforts. Over 1700 new storm water assets have been added to the City Enterprise Asset Management system.</p>  |

| <b>MCM(s)</b>  | <b>BMP</b>   | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>   |
|--|--|--|
| <i>2.3 Illicit Discharge Detection And Elimination</i> | Continue operation and advertising of The Collection Station. Refine communication efforts to increase citizen participation in proper disposal.       | Yes, participation is up 27% over last year.   |
| <i>2.4 Illicit Discharge Detection And Elimination</i> | Consider appropriateness and need of adding remote drop off locations (e.g. oil igloos) for used motor oil collection to encourage greater compliance. | Yes, the City is currently developing a 20 year solid waste program and will incorporate findings and procedures involving stormwater into the planning considerations.        |
| <i>2.5 Illicit Discharge Detection And Elimination</i> | Education on elimination and detection for illicit discharge and dumping issues.   | Yes, the City has developed training materials for elimination or detection and dumping issues for public service employees.   |
| <i>2.6 Illicit Discharge Detection And Elimination</i> | Develop procedures to trace the source of an illicit discharge and eliminate the sources.  | Yes, the City has established two reporting mechanisms through Code Enforcement and the Customer Care hotline and asset mapping (GIS). The City refined the processes in 2016. |
| <i>2.7 Illicit Discharge Detection And Elimination</i> | Continue to clean the sanitary sewer collection system.  | Yes, sanitary sewer cleaning is an ongoing program with dedicated staff and resources.   |

| <b>MCM(s)</b>   | <b>BMP</b>  | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>  |
|---|---|---|
| <i>3.0 Construction Site Storm Water Runoff Control</i> | Develop and implement staff training for procedures, regulations and policies.  | Yes, the City has developed construction site runoff training procedures, conducted multiple process reviews and staff trainings.   |
| <i>3.1 Construction Site Storm Water Runoff Control</i> | Document procedures for plan review. Review and refine plan review and permitting for all projects to add in compliance with the TPDES CGP.     | Yes, the City has procedures in place. The City has multiple methods to ensure compliance with the CGP.   |
| <i>3.2 Construction Site Storm Water Runoff Control</i> | Document procedures for site inspection and enforcement. Review and update procedures for all projects to add in compliance with the TPDES CGP. | Yes, procedures for site inspection are documented in the City's permitting software, MyPermitNow.<br><br>Yes, provided training opportunities for inspection staff on NPDES, TPDES, TCEQ EARZ Regulations and the City's Stormwater Management Plan. |

| <b>MCM(s)</b>  | <b>BMP</b>   | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>   |
|--|--|--|
| <p><i>4.0 Post Construction Storm Water Management</i></p> | <p>Document procedures and standards for plan review. Conduct plan review for all new construction and redevelopment projects to ensure designs address permanent water quality measures in the most sensitive areas of the City (i.e. Edwards Aquifer Recharge Zone).</p> | <p>Yes, new construction and redevelopment plan review is important to ensure designs meet the CGP, MS4 and the City's water quality standard removal of eighty-five percent (85%) of total suspended solids for the entire project.</p> |

| <b>MCM(s)</b>                                       | <b>BMP</b>  | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>  |
|---|---|---|
| <p>4.1 Post Construction Storm Water Management</p> | <p>Refine and update procedures and regulations regarding detention and pollutant attenuation, as appropriate. Develop an adaptive management review process to ensure regular reevaluation and updating of these regulations based on new water quality information.</p> | <p>Yes, the City will review regulations and best practices in unison with the creation of its annual training program, as required under the Illicit Discharge MCM.</p>  |
| <p>4.2 Post Construction Storm Water Management</p> | <p>Set up processes and procedures to ensure maintenance by initial owner and subsequent property owners by requiring developers to create a maintenance plan and require that plan be recorded in the Williamson County property records.</p>                            | <p>Yes, through review the City has identified revision needs in both the Construction Specifications and Standards, the Unified Development Code and has drafted an Illicit Discharge Ordinance. The City has also implemented protocols in the Plan Review process to ensure maintenance of the facility.</p> |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>  |
|---|--|---|
| 4.3 <i>Post Construction Storm Water Management</i>                         | Require that operation and maintenance is performed and documented and that documentation is retained by O&M entity.                         | Yes, the City has procedures in place. The City has multiple methods to ensure compliance with the CGP including educational materials.   |
| 5.0 <i>Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Update the City's maps to include City owned facilities and controls.  | Yes, the City has developed a schedule, based on priority watersheds, to complete an inventory of City owned facilities and stormwater controls. Priority area 1 was mapped in this reporting period (more than 1700 assets collected). |
| 5.1 <i>Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Develop and implement staff training for procedures, regulations and policies.   | Yes, training material has been developed to refine City processes and improve staff understanding of regulations and policies.   |
| 5.2 <i>Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Develop standard contract language and ensure all appropriate future contracts and updates contain language requiring contractor compliance. | Yes, contract language has been improved to ensure compliance with TX 040000, TXR 150000 and City Construction Standards and Specifications.  |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>                                   |
|---|--|--|
| <i>5.3 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Continue sweeping public streets and high priority facilities, document disposal procedure.  | Yes, the City now effectively reports tonnage from street sweeping activities and is better able to predict operational costs and needs. |
| <i>5.4 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Continue system cleaning, develop a list of potential problem areas and prioritize problem areas for increased inspection (for example, areas with recurrent illegal dumping). | Yes, staff has developed an approach to identify problem areas and collect data for their evaluation and correction.                     |
| <i>5.5 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Assess City owned facilities to determine which ones have a high potential to release pollutants. Prepare SOPs for identified high priority facilities.                        | Yes, assessment helped determine facility needs and identify need for adaptive management team. SOPs developed for top 2 facilities.     |



| <b>MCM(s)</b>  | <b>BMP</b>  | <b>BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.</b>  |
|--|---|---|
| <p><i>5.6 Pollution Prevention/ Good Housekeeping for Municipal Operations</i></p> | <p>To reduce water quality impacts from fertilizers and pesticides, maintain licensed applicators by the Texas Department of Agriculture with annual training and certification on proper storage and application techniques.</p> | <p>Yes, Parks and Rec Department and Drainage maintained licensed applicators during the reporting period.</p>  |
| <p><i>5.7 Pollution Prevention/ Good Housekeeping for Municipal Operations</i></p> | <p>Based on initial assessment of City-owned facilities, install improvements at various facilities.</p>  | <p>Yes, the installed containment has been effective in controlling wash soaps, dirt and debris from leaving the wash bay area. Yes, conversion of hypochlorite to PPG tabs is complete for Rec Center, River Ridge, Village and Williams Dr.</p> |

3. Describe progress towards reducing the discharge of pollutants to the maximum extent practicable. Summarize any information used (such as visual observation, amount of materials removed or prevented from entering the MS4, or if required monitoring data, etc.) to evaluate reductions in the discharge of pollutants. You may use the table (See Example 2 in instructions):

| <b>MCM</b> | <b>BMP</b>   | <b>Information Used</b>                                    | <b>Quantity</b> | <b>Units</b> | <b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No, and explain.)</b>  |
|------------|--|--|-----------------|--------------|---|
| 1          | 1.2 Public Education, Outreach & Involvement                         | HHW Vouchers   | 750             | ea.          | Yes. Over 70k lbs. of pollutants prevented collected as part of the HHW program.  |
| 2          | 2.2 Illicit Discharge Detection And Elimination                      | Stormwater assets  | 1767            | ea.          | Yes, increased ability to trace illicit discharge in Priority Area 1 with additional data and integration into Enterprise Asset Management Program. |
| 4          | 4.0 Post Construction Storm Water Management                         | Total Suspended Solids                                     | 175             | ea.          | Yes. Exceeds minimal state requirements are by 5%.  |
| 5          | 5.5 Pollution Prevention/ Good Housekeeping for Municipal Operations | Standard Operating Procedures for High Priority Facilities | 2               | ea.          | 11 individual procedures developed to minimize runoff from high priority facilities   |

4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (**See Example 3 in instructions**):

| <b>MCM(s)</b>   | <b>Measurable Goal(s)</b>   | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>  |
|---|---|--|
| <i>1.0 Public Education, Outreach &amp; Involvement</i> | Develop public education and outreach campaign focused on reduction of the Big 3  | Met goal- See Exhibit 1<br><br>Materials developed in coordination with City of Georgetown Conservation, Customer Care, Systems Engineering and Public Works.  |
| <i>1.1 Public Education, Outreach &amp; Involvement</i> | Acquire, create, or support the creation of education and outreach materials to address primary lawn care issues.                       | Met goal – See Exhibit 3<br><br>Materials developed in coordination with City of Georgetown Conservation, Customer Care, Systems Engineering and Public Works. |
| <i>1.2 Public Education, Outreach &amp; Involvement</i> | Develop education and outreach materials to promote use of less hazardous products and practices, focusing on identified primary issues | Met goal – See Exhibit 1<br><br>Materials developed in coordination with City of Georgetown Conservation, Customer Care, Systems Engineering and Public Works. |

| <b>MCM(s)</b>   | <b>Measurable Goal(s)</b>  | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>   |
|---|--|---|
| 1.3 <i>Public Education, Outreach &amp; Involvement</i> | <p>Identify neighborhoods to be targeted for inlet marking</p> <p>Obtain inlet locations in target neighborhoods and incorporate into database</p> | <p>Met goal – See Exhibit 2</p> <p>More than 1700 assets inventoried, including 145 inlets.</p>   |
| 1.4 <i>Public Education, Outreach &amp; Involvement</i> | Identify volunteer groups to lead cleanup efforts  | <p>Met Goal- See Exhibit 4</p> <p>Q15 “Would you, or an organization to which you belong, participate in activities such as creek cleanup effort, storm inlet marking, water sampling?”</p> <p>Q19. “If you would like to receive more information about upcoming volunteer programs and how you can request links to useful information about improving stormwater quality in Georgetown please provide contact information below.”</p> <p>101 respondents in MS4 focused survey interested in future volunteer efforts.</p> |

| <b>MCM(s)</b>   | <b>Measurable Goal(s)</b>  | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>  |
|---|--|--|
| 1.5 <i>Public Education, Outreach &amp; Involvement</i> | Report numbers of tree plantings and planting events dates   | <p>Met goal- 74 trees planted November 2015 and February 2016 in 11 parks citywide.</p> <ol style="list-style-type: none"> <li>1. Old Town Park</li> <li>2. Summercrest Park</li> <li>3. Raintree Park</li> <li>4. San Gabriel Park</li> <li>5. McMaster Fields</li> <li>6. Pinnacle Park</li> <li>7. University Park</li> <li>8. Draeger parking lot</li> <li>9. The new Library parking lot</li> <li>10. Chautauqua Park</li> <li>11. Bark Park</li> </ol> |
| 1.6 <i>Public Education, Outreach &amp; Involvement</i> | Conduct initial survey, possibly through Georgetown biannual citizen survey.                         | <p>Exceeded Goal- See Exhibit 4</p> <p>The City, with the assistance of Texas State Public Affairs Department completed a focused MS4 Survey of more than 1200 water customers in the Priority Area 1. The City received 170 completed surveys.</p>  |
| 1.7 <i>Public Education, Outreach &amp; Involvement</i> | Identify FOG target audience and identify FOG campaign improvements to better reach target audience. | <p>Met goal- See Exhibit 11</p> <p>The City utilizes its Enterprise Asset Management (EAM) program to monitor corrective maintenance resulting from fat, oils and grease cleanouts. Information includes date, time, location cause and corrective action.</p>   |

| <b>MCM(s)</b>   | <b>Measurable Goal(s)</b>                                 | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>                |
|---|---|--|
| <i>1.8 Public Education, Outreach &amp; Involvement</i> | Continue to provide online access to SWMP                 | Met goal- See Exhibit 5<br><br>Since posting, the webpage received 264 page views, up from 25 views last reporting period. |
| <i>2.0 Illicit Discharge Detection And Elimination</i>  | Adopt ordinance   | Met goal – See Exhibit 6<br><br>Ordinance adopted 12/08/2015   |
| <i>2.1 Illicit Discharge Detection And Elimination</i>  | Update citizen complaint system                           | Met goal- See Exhibit 7, 13<br><br>More than 60 hrs. dedicated to effort and multiple internal and external agencies.      |
| <i>2.2 Illicit Discharge Detection And Elimination</i>  | Map the Middle and North Fork San Gabriel River watershed | Met Goal – See Exhibit 2, 13<br><br>More than 200 hrs. dedicated to mapping.   |

| <b>MCM(s)</b>  | <b>Measurable Goal(s)</b>                              | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>  |
|--|--|--|
| <i>2.3 Illicit Discharge Detection And Elimination</i> | Continue Collection Station quarterly report           | Met Goal- See Exhibit 12, 28<br><br>Collection station monitoring ongoing.   |
| <i>2.4 Illicit Discharge Detection And Elimination</i> | Assess need for additional oil collection alternatives | Goal met- Programming and final determinations are scheduled with consultant as part of the Solid Waste Master Plan.   |
| <i>2.5 Illicit Discharge Detection And Elimination</i> | 1 training per Department, list of attendees / dates   | Met goal- See Exhibit 10, 30<br><br>Formal training was developed and delivered in accordance to City standards as part of the integration of stormwater assets into the InforEAM asset management system. |
| <i>2.6 Illicit Discharge Detection And Elimination</i> | List of investigation types and locations              | Met goal – See Exhibit 9, 29<br><br>Reporting YR3 will integrate efforts by Code Enforcement with EAM to provide a comprehensive and multi-department response process.                                    |
| <i>2.7 Illicit Discharge Detection And Elimination</i> | Clean 30,000 feet of sanitary sewer                    | Exceeded goal- See Exhibit 11<br><br>SSO investigations and annual reporting to TCEQ ongoing.  |

| <b>MCM(s)</b>  | <b>Measurable Goal(s)</b>   | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>  |
|--|---|--|
| 3.0<br><i>Construction Site Storm Water Runoff Control</i> | Assess current inspection procedures to identify needs for training on TPDES construction general permit (CGP).                 | Met goal – See Exhibit 10<br><br>Additional outreach is needed with general contractors on the CGP and the City’s Construction Standards and Specifications. |
| 3.1<br><i>Construction Site Storm Water Runoff Control</i> | Assess current plan review procedures related to TPDES construction general permit (CGP). Identify areas requiring improvement. | Met goal - See Exhibit 10, 14<br><br>The City revised Construction Standards and Specifications as a result of the review.                                   |
| 4.0<br><i>Post Construction Storm Water Management</i>     | Develop revisions to plan review procedures based on assessment.  | Met goal – See Exhibit 27<br><br>Adopted ordinance. Reviewed and revised private and publically maintained detention and water quality ponds.                |



| <b>MCM(s)</b>                                       | <b>Measurable Goal(s)</b>  | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>                              |
|---|--|--|
| 4.1 <i>Post Construction Storm Water Management</i> | Review procedures and regulations to identify required improvements  | Met goal – See Exhibit 6, 15<br><br>Adopted ordinance. Reviewed current standards and compliance with Adaptive Management Working Group. |
| 4.2 <i>Post Construction Storm Water Management</i> | Assess existing ordinances and codes, determine if modifications are necessary to allow City to require owners to develop and implement maintenance plans. | Met goal- See Exhibit 6, 15, 27<br><br>Copies of recordation of WPAP required during pre-construction meetings.                          |

| <b>MCM(s)</b>   | <b>Measurable Goal(s)</b>   | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>  |
|---|---|--|
| <i>4.3 Post Construction Storm Water Management</i>                         | Develop or modify ordinances or code to allow City to require owners to perform and document maintenance. | Met goal- See Exhibit 6, 15, 27<br><br>The process is working. The City has conducted meetings with private pond owners and ensured continual maintenance. |
| <i>5.0 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Acquire additional data needed. Develop procedures for updating.  | Met goal- See Exhibit 2<br><br>Process now includes mechanisms to capture new assets as well as collect previously constructed stormwater assets.          |
| <i>5.1 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Identify departments and staff requiring stormwater training.   | Met goal- See Exhibit 17<br><br>Hiring additional MS4 staff in early 2017 to assist with implementation.   |
| <i>5.2 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Incorporate standard pollution control requirements into standard contract.                               | Met goal- See Exhibit 18, 19   |

| <b>MCM(s)</b>   | <b>Measurable Goal(s)</b>   | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>   |
|---|---|---|
| <i>5.3 Pollution Prevention/<br/>Good Housekeeping for Municipal Operations</i> | Sweep all City streets once annually.   | Met goal- Exhibit 20<br><br>Removed nearly 100 tons of debris from City streets.  |
| <i>5.4 Pollution Prevention/<br/>Good Housekeeping for Municipal Operations</i> | Identify problem areas and develop prioritized list. Develop tracking system. | Met goal - See Exhibit from 32, 33<br><br>Monitoring and management processes integrated in to EAM process including corrective and preventive maintenance.           |
| <i>5.5 Pollution Prevention/<br/>Good Housekeeping for Municipal Operations</i> | Prepare SOP for Parks.<br><br>Administration/Animal Shelter.                  | Met goal – See Exhibit 8, 26<br><br>SOP(s) include measures for General good housekeeping, Fueling operations, vehicle maintenance and Equipment and vehicle washing. |
| <i>5.6 Pollution Prevention/<br/>Good Housekeeping for Municipal Operations</i> | Copies of license renewals for annual report.                                 | Met goal – See Exhibit 21<br><br>Retained and trained 2 licensed applicators for reporting period.  |

| <b>MCM(s)</b>   | <b>Measurable Goal(s)</b>                                   | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b> |
|---|---|---|
| <i>5.7 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Install overhead cover over equipment at Recreation Center. | Met goal – See Exhibit 22   |

## **C. Stormwater Data Summary**

Provide a summary of all information used including any lab results (if sampling was conducted) to assess the success of the SWMP at reducing the discharge of pollutants to the MEP. For example, did the MS4 conduct visual inspections, clean the inlets, look for illicit discharge, clean streets, look for flow during dry weather, etc.? (Refer to the MS4 General Permit TXR040000 Part IVa Section B.2.(b))

## **D. Impaired Waterbodies**

1. If applicable, explain below any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern: (Refer to MS4 General Permit TXR040000 Part IV Section B.2.(c))

In an ongoing effort to improve monitoring and reporting capabilities, the City of Georgetown conducted initial water samplings along the North Fork of the San Gabriel River. This initial effort is not required by the City's current TXR040000. However the effort was to help the City develop processes for future collection and monitoring efforts. Results from the sampling indicated compliance with the State's established Surface Water Quality Standards. See Exhibit 23

The City, through its volunteer efforts is also partnering with the Goodwater Master Naturalist (GWMN) and the Meadows Center at Texas State to help improve local, volunteer reporting efforts. This coordination is ongoing and the City is considering requests for material support by GWMN. See Exhibit 24

2. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)):

No TMDLs within the City's MS4 jurisdictional boundary.

3. Report the benchmark identified by the MS4 and assessment activities (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)(6)):

No TMDLs within the City's MS4 jurisdictional boundary.

| <b>Benchmark Parameter</b><br><i>(Ex: Total Suspended Solids)</i> | <b>Benchmark Value</b> | <b>Description of additional sampling or other assessment activities</b> | <b>Year(s) conducted</b> |
|---|------------------------|--|--------------------------|
| N/A   | N/A                    | N/A  | N/A                      |

4. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)(4)):

| <b>Benchmark Parameter</b> | <b>Selected BMP</b> | <b>Contribution to achieving Benchmark</b> |
|----------------------------|---------------------|--|
| N/A                        | N/A                 | N/A  |

5. If applicable, report on focused BMPs to address impairment for bacteria (Refer to the MS4 General Permit TXR040000; Part II Section D.4.(a)(5)):

| <b>Description of bacteria-focused BMP</b>   | <b>Comments/Discussion</b>  |
|--|---|
| P.E 1.1- Develop a public education and outreach campaign focused on the reduction of the bacteria, floatables and fertilizer. | <p>City has identified the following community issues:</p> <ol style="list-style-type: none"> <li>1) Chlorinated swimming pool discharges selected due to N. Fork of San Gabriel impacted for chlorine. Audience includes the residents and HOAs along the N. Fork of the San Gabriel.</li> <li>2) Pet/animal waste selected due to impairment of bacteria in segment 1248C. Audience selected is Bark Park and residential neighborhoods along the N. Fork of the San Gabriel. Feedback from the Sun City Community Association indicates a need for additional education about pet waste disposal.</li> <li>3) Floatables (trash). The City does not currently coordinate volunteer trash clean up outside of scheduled trash collection. Visual inspection of local waterways reveals floatables. Audience includes the residents, HOAs and commercial entities along the N. Fork of the San Gabriel. Quantify reduction of ground litter at Creative</li> </ol> |

| Description of bacteria-focused BMP | Comments/Discussion  |
|-------------------------------------|--|
|                                     | Playscape, McMasters and downtown district due to Big Bellies. |

6. Assess the progress to determine BMP’s effectiveness in achieving the benchmark (Refer to the MS4 General Permit TXR040000; Part II.D.4.(a)(6)):

For example, the MS4 may use the following benchmark indicators:

- number of sources identified or eliminated;
- decrease in number of illegal dumping;
- increase in illegal dumping reporting;
- number of educational opportunities conducted;

| Benchmark Indicator                           | Description/Comments   |
|---|--|
| Number of Educational Opportunities Conducted | Through focused stormwater survey, the City educated more than 170 water customers in the Priority 1 area. |

## E. Stormwater Activities

Describe stormwater activities the MS4 operator plans to undertake during the next reporting year. You may use the table below (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(d)):

| MCM(s)  | BMP   | Stormwater Activity   |
|---|---|---|
| <i>1.0 Public Education, Outreach &amp; Involvement</i> | Develop a public education and outreach campaign focused on the reduction of the bacteria, floatables and fertilizer.   | Market campaign via online webpage and social media   |
| <i>1.1 Public Education, Outreach &amp; Involvement</i> | Acquire, create or support the creation of public education and outreach materials focused on garden and lawn care education.   | Post education and outreach materials online<br><br>Promote availability of materials   |
| <i>1.2 Public Education, Outreach &amp; Involvement</i> | Continue to collect Household Hazardous Waste from residents at designated facilities. Refine communication efforts to maximize citizen participation in proper disposal. | Develop/post message to promote awareness and use of The Collection Station<br><br>Post education and outreach materials online |



| <b>MCM(s)</b>   | <b>BMP</b>  | <b>Stormwater Activity</b>  |
|---|---|---|
| <i>1.3 Public Education, Outreach &amp; Involvement</i> | Inlet marking- Staff shall develop a program to recruit and manage volunteer efforts to install inlet markers throughout the city. Volunteers will be educated about water quality impacts.   | <p>Prepare/acquire inlet marking materials</p> <p>Develop forms and volunteer leader training</p> <p>Acquire/create public education and outreach materials</p> |
| <i>1.4 Public Education, Outreach &amp; Involvement</i> | Stream-Cleanup<br>Acquire, create or support the creation of public education and outreach materials to be distributed in target neighborhoods to explain the purpose of the recent inlet marker installation and concepts associated with "drains to creek". | <p>Train volunteers, develop cleanup documentation procedures</p> <p>Start list of cleanup locations &amp; dates</p>  |
| <i>1.5 Public Education, Outreach &amp; Involvement</i> | Continue to promote multiple tree planting events. Staff shall develop/acquire and provide supplemental materials to make the connection between  | <p>Support the creation of education and outreach materials</p> <p>Report numbers of tree plantings and planting events/dates</p>                               |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>Stormwater Activity</b>  |
|---|--|---|
| <i>1.6 Public Education, Outreach &amp; Involvement</i> | Create survey to be utilized for this permit term. Conduct initial survey and analyze responses. If warranted, revise outreach articles and materials in response to initial survey. | Identify education and outreach approach revisions based on survey results and begin making revisions |
| <i>1.6 Public Education, Outreach &amp; Involvement</i> | Continue FOG (Fats, Oil or Grease) campaign. Refine communication efforts to maximize citizen awareness.   | Update campaign materials as necessary to better reach target audience                                |
| <i>1.7 Public Education, Outreach &amp; Involvement</i> | The City will make the SWMP publically available online along with brief description of SWMP purpose and regulatory driver.  | Continue to provide online access to SWMP   |

| <b>MCM(s)</b>  | <b>BMP</b>  | <b>Stormwater Activity</b>   |
|--|---|--|
| <i>2.0 Illicit Discharge Detection And Elimination</i> | The City will review and revise, if needed, relevant ordinance(s) to provide authority to: prohibit illicit discharges and illicit connections, respond to and contain other releases, and prohibit dumping or disposal of materials other than stormwater. | Written enforcement procedures                                       |
| <i>2.1 Illicit Discharge Detection And Elimination</i> | The City will develop written procedures for responding to illicit discharge complaints. Create and maintain a complaint hotline database. Begin investigations of complaints as they are received.   | Newsletter, web page or press release and list of complaints         |
| <i>2.2 Illicit Discharge Detection And Elimination</i> | The City will continue to update the City's storm drain map as needed with identification of new, altered, and newly discovered storm drain features.   | Update system map; map the Smith Branch-San Gabriel River Watershed. |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>Stormwater Activity</b>   |
|---|--|--|
| <i>2.3 Illicit Discharge Detection And Elimination</i>  | Continue operation and advertising of The Collection Station. Refine communication efforts to increase citizen participation in proper disposal.       | Additional publications in the City Reporter, online and utility inserts.  |
| <i>2.4 Illicit Discharge Detection And Elimination</i>  | Consider appropriateness and need of adding remote drop off locations (e.g. oil igloos) for used motor oil collection to encourage greater compliance. | Continue program with quarterly reports<br><br>Assess need for additional oil collection alternatives in North Fork San Gabriel Watersheds |
| <i>2.5 Illicit Discharge Detection And Elimination</i>  | Education on elimination and detection for illicit discharge and dumping issues.   | 1 training for new employees, list of attendees / dates  |
| <i>3.0 Construction Site Storm Water Runoff Control</i> | Develop procedures to trace the source of an illicit discharge and eliminate the sources.  | List of investigation types and locations  |
| <i>3.1 Construction Site Storm Water Runoff Control</i> | Continue to clean the sanitary sewer collection system.  | Clean 30,000 feet of sanitary sewer  |

| <b>MCM(s)</b>  | <b>BMP</b>   | <b>Stormwater Activity</b>  |
|--|--|---|
| <p><i>4.0 Post Construction Storm Water Management</i></p> | <p>Develop and implement staff training for procedures, regulations and policies.</p>  | <p>Acquire, develop, or support the development of CGP training curriculum</p> <p>Identify training frequency</p> |
| <p><i>4.1 Post Construction Storm Water Management</i></p> | <p>Document procedures for plan review. Review and refine plan review and permitting for all projects to add in compliance with the TPDES CGP.</p> | <p>Develop revised plan review procedures</p>   |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>Stormwater Activity</b>   |
|---|--|--|
| <i>4.2 Post Construction Storm Water Management</i>                         | Document procedures for site inspection and enforcement. Review and update procedures for all projects to add in compliance with the TPDES CGP.            | Develop revisions to inspection procedures<br><br>Include system for tracking stormwater inspections/complaints    |
| <i>5.0 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Refine and update procedures and regulations regarding detention and pollutant attenuation, as appropriate. Develop an adaptive management review process. | Refine and update regulations<br><br>Develop process for regular review and updating of procedures and regulations |
| <i>5.1 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Set up processes and procedures to ensure maintenance by initial owner and subsequent property owners.   | Develop system for tracking proposed permanent stormwater quality measures   |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>Stormwater Activity</b>  |
|---|--|---|
| <i>5.2 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Require that operation and maintenance is performed and documented and that documentation is retained by O&M entity.                         | Develop procedures to review maintenance records                    |
| <i>5.3 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Update the City's maps to include City owned facilities and controls.  | Maintain/update database and maps                                   |
| <i>5.4 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Develop and implement staff training for procedures, regulations and policies.   | Acquire, develop, or support the development of training curriculum |
| <i>5.5 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Develop standard contract language and ensure all appropriate future contracts and updates contain language requiring contractor compliance. | Require use of revised standard contract                            |

| <b>MCM(s)</b>   | <b>BMP</b>   | <b>Stormwater Activity</b>  |
|---|--|---|
| <i>5.6 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Continue sweeping public streets and high priority facilities, document disposal procedure.  | Monthly reports of lane miles swept, sweep entire City annually     |
| <i>5.7 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Continue system cleaning, develop a list of potential problem areas and prioritize problem areas for increased inspection (for example, areas with recurrent illegal dumping).   | Annual reports on cleaning activities, meet inlet and culvert goals |
| <i>5.8 Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | The City will assess City owned facilities to determine which ones have a high potential to release pollutants. The City will prepare Standard Operating Procedures (SOPs) specific to each identified high priority facility. | Prepare SOP for Recreation Center and Pools                         |



| <b>MCM(s)</b>  | <b>BMP</b>   | <b>Stormwater Activity</b>   |
|--|--|--|
| 5.9 <i>Pollution Prevention/ Good Housekeeping for Municipal Operations</i>  | To reduce water quality impacts from fertilizers and pesticides, maintain licensed applicators by the Texas Department of Agriculture with annual training and certification on proper storage and application techniques. | Copies of license renewals for annual report   |
| 5.9 <i>Pollution Prevention/ Good Housekeeping for Municipal Operations</i>  | Based on initial assessment of City-owned facilities, the City will install improvements at the Municipal Complex Facility.  | None – in accordance with approved stormwater management plan, completed in prior year |
| 5.10 <i>Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Based on initial assessment of City-owned facilities, the City will install improvements at the Parks Administration complex.  | None – in accordance with approved stormwater management plan, completed in prior year |
| 5.11 <i>Pollution Prevention/ Good Housekeeping for Municipal Operations</i> | Based on initial assessment of City-owned facilities, the City will install improvements at various pool facilities.   | Install overhead cover over equipment at River Ridge Pool                              |

## F. SWMP Modifications

1. 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

If 'Yes', report on changes made to measurable goals and BMPs (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(e)):

| MCM(s) | Measurable Goal(s) or BMP(s) | Implemented or Proposed Changes (Submit NOC as needed) |
|--------|------------------------------|--|
| N/A    | N/A                          | N/A  |

**Note:** If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible and why the replacement BMP is expected to achieve the goals of the original BMP.

2. Explain additional changes or proposed changes not previously mentioned (i.e. dates, contacts, procedures, annexation of land etc.):

N/A – All and annexed during reporting period was outside the Urbanized Area and the City's authority under TXR 040000.

## G. Additional BMPs for TMDLs and I-Plans

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans (Refer to the MS4 General permit TXR040000 Part IV Section B.2.(f)).

| BMP | Description | Implementation Schedule (Start Date etc.) | Status / Completion Date (completed, in progress, not started) |
|-----|-------------|---|--|
| N/A | N/A         | N/A                                       | N/A  |

## H. Additional Information

1. Is the permittee relying on another entity to satisfy some of its permit obligations? (refer to the MS4 General Permit TXR040000 Part IV Section B.2.(g))

Yes  No

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

Name and Explanation:

2a. Is the permittee part of a group sharing a SWMP with other entities?

Yes  No

2b. If 'yes,' is this a system-wide annual report including information for all permittees?

Yes  No

If 'Yes,' list all associated authorization numbers, permittee names, and SWMP responsibilities of each member. (add additional spaces or pages if needed):

Authorization Number: \_\_\_\_\_ N/A \_\_\_\_\_ Permittee: \_\_\_\_\_ N/A \_\_\_\_\_

## I. Construction Activities

1. The number of construction activities that occurred in the jurisdictional area of the MS4 (Notices of intent and site notices received; Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(h)) \_\_\_\_\_ 3785 \_\_\_\_\_

2a. Does the permittee utilize the optional 7<sup>th</sup> MCM related to construction?

Yes  No

2b. If 'yes,' then provide the following information for this permit year (refer to the MS4 General Permit TXR040000 Part IV Section B.2.(i)):

|  |     |
|--|-----|
| The number of municipal construction activities authorized under this general permit | N/A |
| The total number of acres disturbed for municipal construction projects              | N/A |

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

## J. 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): David Morgan Title: City Manager

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name of MS4 City of Georgetown, Texas

**Note:** If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

## **K. Exhibits**

- Exhibit 1 – Big 3 Materials
- Exhibit 2 – Priority 1 Mapped (YR 2-2016)
- Exhibit 3 – Storm Fertilizer
- Exhibit 4 – MS4 Survey Results
- Exhibit 5 – Analytics streets.georgetown.org Pages 20151001-20160930
- Exhibit 6 – Illicit Discharge Ordinance 2015-62
- Exhibit 7 – Citizen Complaint Process Update
- Exhibit 8 – Animal Shelter SOP
- Exhibit 9 – Code Enforcement MS4 Incident Log (2015-2016)
- Exhibit 10 – Construction Stormwater Runoff Management Process Review (19APR2016)
- Exhibit 11 – EARZ WW Line Cleaning SSO Initiative (MAR2016)
- Exhibit 12 – Collection Station – MS4 Totals OCT2015-SEP2016
- Exhibit 13 – MS4 Hourly Report (OCT2015-SEP2016)
- Exhibit 14 – Revised Construction Standards and Specifics (2016)
- Exhibit 15 – Sec 11.07 Update Presentation-Water Quality Adaptive Management Presentation
- Exhibit 16 – SWPPP-Pre Con Checklist (05MAY2015)
- Exhibit 17 – CoG MS4 Training Schedule (2016-YR2)\
- Exhibit 18 – Illicit Discharge Ordinance—Update to Standard Terms (Contracts)
- Exhibit 19 – Bid Language for Pond Maintenance
- Exhibit 20 – Street Sweeping Receipts (OCT15-SEP2016)
- Exhibit 21 – License Applicators
- Exhibit 22 – Rec Center Overhead Cover
- Exhibit 23 – Water Quality Sampling on N. Fork San Gabriel (JAN2016)
- Exhibit 24 – Goodwater Master Naturalist Meeting Notes (3262016)
- Exhibit 25 – Priority Areas
- Exhibit 26 – Parks-Stormwater Standard Operating Procedures (SOP)
- Exhibit 27 – Stormwater Pond Inventory (Public and Private) (2016)
- Exhibit 28 – HHW 2015-2016 Georgetown Breakdown

Exhibit 29 – MS4 Incident Log (2015-2016)

Exhibit 30 – Illicit Discharge and Detection Procedural Review and Annual Training (AP2016 and SEP2016)

Exhibit 31 – Project Plan Summary (JUNE202016)

Exhibit 32 – Inlet Cleaning Locations (2016)

Exhibit 33 – Inlet Cleaning Locations Priority Area 1 (2016)