



COUNTY OF BEXAR

PUBLIC WORKS DEPARTMENT ENVIRONMENTAL SERVICES

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San Antonio, Texas 78207-3188
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February 23, 2016

Texas Commission on Environmental Quality
Storm Water and Pretreatment Team (MC-148)
P.O. Box 13087
Austin, Texas 78711-3087

Re: Phase II MS4 Annual Report Transmittal for Bexar County
TPDES Permit Authorization: TXR040031

Dear Team Leader:

This letter serves to transmit the 2015 Annual Report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization Number TXR0400031 for Bexar County.

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 this submittal has also been mailed to the TCEQ's regional office in San Antonio, Texas.

Sincerely,

Renee D. Green, P.E.
Director of Public Works/County Engineer

Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

Authorization Number: TXR040031 Annual Reporting Year: (calendar year, permit year, or fiscal year): Calendar: Jan 15 - Dec 15 Last day of fiscal year, if applicable: September 30, 2016

MS4 Operator Level: Level 2 Name of MS4/Permittee: Bexar County

Contact Name: Andrew Winter Telephone Number: 210-335-6700

Mailing Address: 233 N. Pecos Ste. 420, San Antonio, TX 78207

E-mail Address: awinter@bexar.org

B. Narrative Provisions (Part IV Section B.2.(a))

Provide information on the status of complying with permit conditions: (Part V - Standard Permit Conditions):

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes, all measurable goals have been met
Permittee is currently in compliance with recordkeeping and reporting requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes, we are retaining all records indicated in Part IV Section A and reporting everything required in Part IV Section B.
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes, Bexar County has met the eligibility requirements of the permit

2. Provide a general assessment of the appropriateness of the selected BMPs. Use table below or attach a summary, as appropriate (See Example 1 in instructions):

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
	See Attached Table	

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
	See Attached Table	

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

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

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 2 in instructions):

MCM(s)	Measurable Goal(s)	Success
	See Attached table	

C. Stormwater Monitoring Data (Part IV Section B.2.(b))

1. The MS4 has conducted monitoring of stormwater quality and submitted in the annual report (i.e. analytical and visual observations).

Yes No

a. Explain below or attach a summary to submit along with any monitoring data used to evaluate the success of the SWMP at reducing pollutants to the maximum extent practicable. Be sure to include a discussion of results:

D. Impaired Waterbodies (Part IV Section B.2.(c))

1. If applicable, explain below or attach a summary of 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:

SEE ATTACHED NARRATIVE

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

SEE ATTACHED NARRATIVE

3. Report the benchmark identified by the MS4 and assessment activities (*Part II Section D.4.(a)(6)*):

Benchmark Parameter <i>(Ex: Total Suspended Solids)</i>	Benchmark Value	Description of additional sampling or other assessment activities	Year(s) conducted
	See Attached Table		
	See Attached Table		
	See Attached Table		

4. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark (*Part II Section D.4.(a)(4)*):

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
See TMDL BMP table		

5. If applicable, report on focused BMPs to address impairment (*Part II Section D.4.(a)(5)*):

Pollutant to Address <i>(Ex: Bacteria)</i>	Description of Focused BMP	Comments/Discussion
See TMDL BMP table		

6. Describe progress in achieving the benchmark (*Part II.D.4.(a)(6)*):

For example, the MS4 may use the following indicators:

- number of sources identified or eliminated;
- decrease in number of illegal dumping;
- increase in illegal dumping reporting;
- number of educational opportunities conducted;
- reductions in sanitary sewer flows (SSOs)
- increase in illegal discharge detection through dry screening

Benchmark Indicator	Description/Comments
See attached TMDL BMP table	

E. Stormwater Activities (Part IV Section B.2.(d))

Describe any stormwater activities the MS4 operator has planned for the next reporting year. Use the table or attach a summary, as appropriate:

MCM(s)	BMP	Stormwater Activity	Description/Comments
See ATTACHED TABLE			
See ATTACHED TABLE			
See ATTACHED TABLE			

MCM(s)	BMP	Stormwater Activity	Description/Comments
See ATTACHED TABLE			
See ATTACHED TABLE			

F. SWMP Modifications (Part IV Section B.2.(e))

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:

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
3	<i>Measurable Goal - Perform site inspections of 25% of all active construction sites.</i>	<i>Revise goal to perform site inspections of 25% of all active construction sites, or a minimum of 50 sites per year. Submitted NOC along with the annual report to reflect this change.</i>
SEE ATTACHED TABLE		

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)

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.):
SEE ATTACHED NARRATIVE

G. Additional BMPs (Part IV Section B.2.(f))

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.

BMP	Description	Implementation Schedule (Start Date etc.)	Status / Completion Date (completed, in progress, not started)
None at this time			

H. Additional Information (Part IV Section B.2.(g))

1. Is the 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: N/A

2.a. Is the named permittee sharing a SWMP with other entities?

Yes No

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

Yes No

If 'Yes,' list all associated permit numbers and permittee names (add additional spaces or pages if needed):

Authorization Number: <u>N/A</u>	Permittee: <u>N/A</u>

I. Construction Activities (Part IV Section B.2.(h-i))

1. The number of construction projects in the jurisdiction of the MS4 where the permittee was not the construction site operator (as provided in submittals to the MS4 operator via notices of intent or site notices) 500 active sites

2. a. Does the permittee utilize the optional seventh MCM related to construction?

Yes No

2. b. If 'yes,' then provide the following information for this permit year:

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): Renee D. Green, P.E. Title: Bexar County Engineer
Director of Public Works

Signature: *Renee D. Green* Date: 2/23/2016

Name (printed): _____ Title: _____

Signature: _____ Date: _____

Name (printed): _____ Title: _____

Signature: _____ Date: _____

Name (printed): _____ Title: _____

Signature: _____ Date: _____

Name (printed): _____ Title: _____

Signature: _____ Date: _____

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).

B. Narrative Provisions

1. See Template.
2. See BMP tables for BMP information.
3. The tables provided references just some of the BMPs that Bexar County utilizes to help reduce the amount of pollutant entering our MS4. We have found that a majority of the BMPs utilized have been effective in reducing pollutant discharges.

For educating the public, we have found that simply informing the public through brochures has shown improvement. We had bags made with our storm water slogan "Only Rain in the Drain" written on them and have been handing those out stuffed with our brochures for code compliance, on-site sewage facilities and storm water quality. The brochures for code compliance target illegal dumping, the brochures for on-site sewage facilities target septic failures and overflows, the brochures for animal control target nutrients and bacteria, and the brochures for storm water quality target illicit discharges and general SWQ issues on construction sites. We have seen an increase in the number of violations reported by the public along with a higher willingness to comply due to having the general knowledge of storm water quality.

We also participate in educating the engineers and contractors on the requirements for storm water quality in Bexar County. We have had special USBs made with our slogan "Only Rain in the Drain" printed on them. On the USB is information for all our departments in Public Works including Storm Water Quality, Code Compliance, OSSF, and Animal Control. We have seen a large number of people utilize the information off the USB to help with permitting and compliance.

Through training County staff and field workers on illicit discharges, we have seen an increase in monitoring for illicit discharges and illicit connections from employees in our service centers. With our current storm sewer map, we are able to back track illicit discharges and find their sources.

With reviewing SWPPP documents as part of the permitting process, we are able to ensure proper planning for the site along with making sure all sites are aware of the regulations. Once reviewed, the inspection and enforcement of the sites ensures the plans are executed on site appropriately and any changes made are done appropriately. This has helped to reduce the amount of complaints against construction sites.

All post construction structures owned by Bexar County are inspected quarterly and any repairs needed are done. We have been working with the engineering and real-estate communities and have just completed a post construction bmp manual which would be applied to the all sites 1 acre or more. We have had to move back our original projected start of the program from December 31, 2015 to not later than December 31, 2016. We are on track to meet to new date. Currently, we had all staff trained on post construction O&M on February 12, 2016 and expect the program to begin on April 1, 2016.

Finally, our good housekeeping mcm of training on spill response has proven to be good. We have had high turnover due to the oil boom in south Texas. With having an annual training, it allows us to train new employees so as to keep everyone up to date on spill response. As a result, we have seen fewer spills at service centers and better handling of spills when they occur.

4. See BMP tables for Measurable Goal information

C. Stormwater Monitoring Data

1. Yes

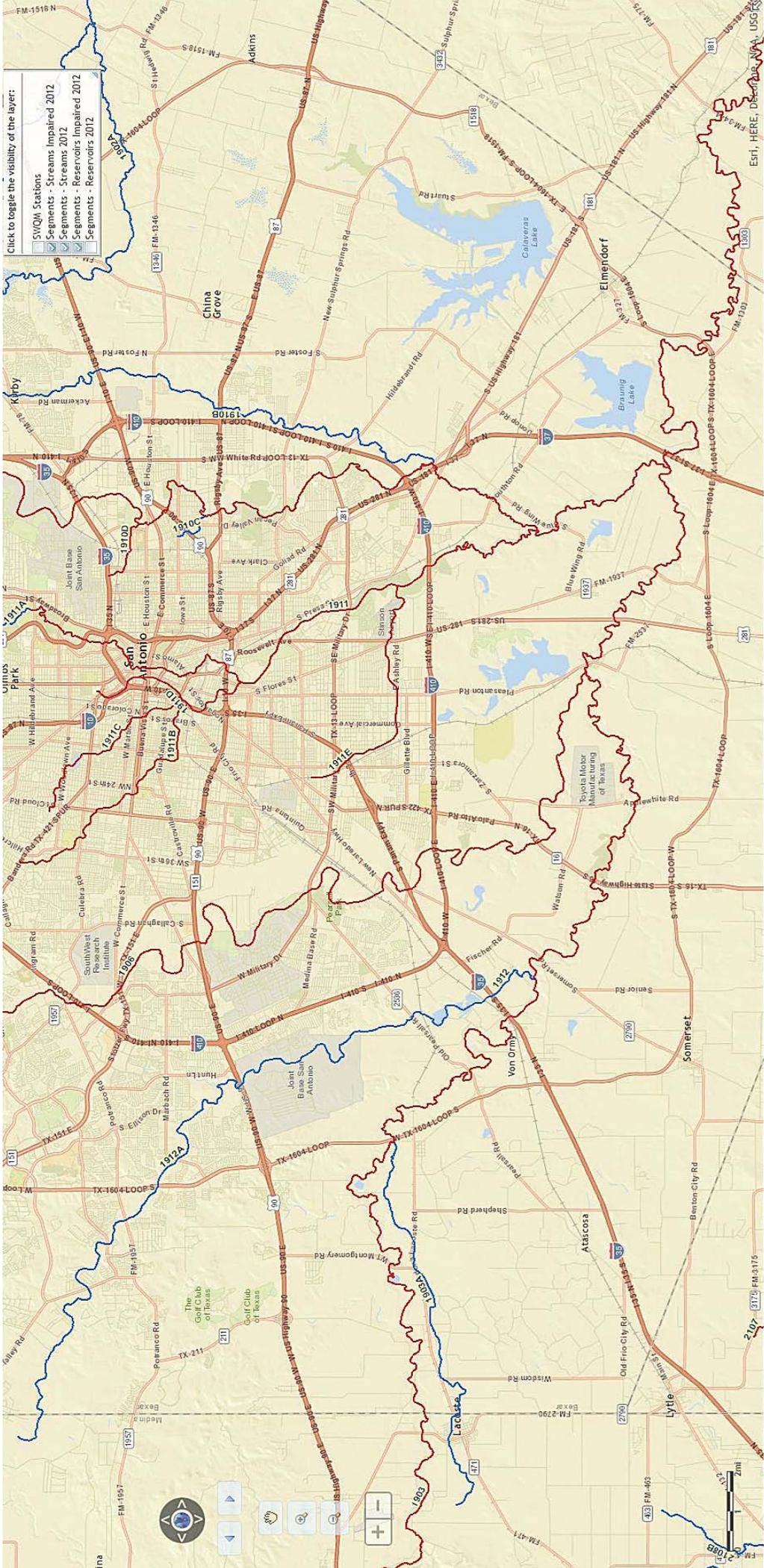
- a. Every year we conduct an annual aerial rivers survey. This year we flew approximately 600 miles of river to inspect for dumping along the stream banks. We have been doing this for 4 years. We make a point to try to take photos in the same areas year after year to see if there has been a reduction in floatables in the rivers/ streams.

Any reduction in dumping on stream banks or in the streams themselves will reduce the amount of pollutants entering our MS4. Attached are photos showing a reduction in dumping along the stream banks for over the past 3 years. We typically take approximately 12000 photos during the survey so it does take considerable time to go through and match.

This year, we have decided to focus our efforts to primarily the impaired waterbodies, known dumpsites and Lucas Creek. We have been seeing a large increase in development along Lucas Creek and feel that since Lucas Creek connects to an impaired water body (even though it is not impaired itself) warranted a closer look.

The next page is a copy of a map of the areas that were flown.

- Click to toggle the visibility of the layer:
- SWQM Stations
 - Segments - Streams Impaired 2012
 - Segments - Streams 2012
 - Segments - Reservoirs Impaired 2012
 - Segments - Reservoirs 2012



D. Impaired Water Bodies

1. In January, we conducted our annual aerial rivers survey. As sites are identified, sampling is done. No sites requiring sampling were identified during the flyover this year. Last year while flying, a pair of Bald Eagles and their nest was found. This is the first confirmed and verified sighting of Bald Eagles in Bexar County. This year, the water bodies appeared to be cleaner than last year. However, new violations are found every year.

Below and on the next two pages, you will find various photos of our aerial rivers survey.



Wildlife found around the rivers



Annual Aerial Assessment of Impaired Water Bodies



Every year, Bexar County participates in Basura Bash. Employees help clean stream banks with large amounts of trash dumped in order to help reduce bacteria and other pollutants from entering the MS4. Many of the streams being cleaned are impaired water bodies located either in Bexar County or are located in the City of San Antonio and will run into Bexar County. Below and on the next page you will find various photos of our Basura Bash Event.

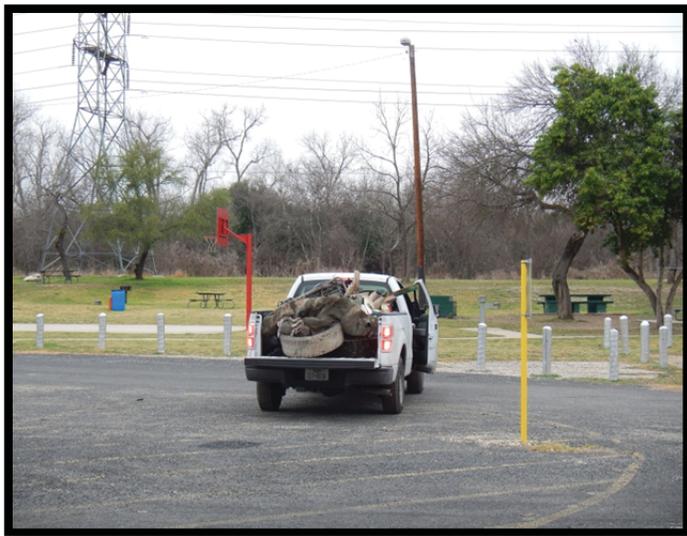


Basura Bash Event

BEFORE



AFTER



Also, Bexar County conducts many nuisance abatements along with litter pickup. 85 % of the nuisance abatements conducted this past permit year were in the Salado and Walzem creek watershed areas. These creeks have a TMDLs for bacteria. By reducing the amount of litter and trash being dumped in the area, we are able to help reduce the bacteria entering the MS4.

At the start of December, Bexar County initiated a Pilot Trash Collection Program in partnership with the City of San Antonio. Currently, there is a state law that does not allow Bexar County to mandate trash collection in the unincorporated areas of counties. However, it can be done through an agreement with the local municipality if in the ETJ. The area participating in the program is a small neighborhood of 600 residents. Only 43% were paying for trash collection. The area accounts for 1/3 of all code compliance complaints received by our office, mostly for junk, trash, and rubbish being left out. We saw this as a huge opportunity to reduce potential bacteria loads into the Salado and Walzem creek watershed areas. This 3 year program has just started so, we will have more information in the next annual report.

2. Bexar County does have 3 stream segments with TMDLs. Three are for bacteria and one is for dissolved oxygen. Bexar County has a set list of BMPs directly targeting the bacteria and dissolved oxygen pollutants. In the associated table is a list of all the BMPs that are going to target the TMDL pollutants.

All required benchmarks have been completed. Our GIS department has taken our data and created a map displaying all known locations of septic systems. Priority areas will be assessed for further investigation and enforcement. We do have some addresses that do not correlate with our GIS addresses, therefore, we will need to go through by hand and make any changes needed. However, we still have 90% of known septic systems mapped. We have also completed identifying significant animal sources in the county along with creating a pet waste regulation.

We are visually inspecting drainage ways in Bexar County with a helicopter. Since all drainage area and creeks are not traversable on foot, a helicopter flight in the winter allows for a good view of the stream banks. We have found multiple areas of illegal dumping and filling in. This helicopter flight allows us to monitor these sites better to ensure compliance.

We also made repairs to a private concrete drainage easement that was failing and could have caused a large amount of erosion and a possible septic leak into the MS4. By making the necessary repair, we eliminated that issue along with any dissolved oxygen issues and bacteria issues.

Finally, we are currently taking steps to ensure that all benchmarks for all BMPs that are targeting specific pollutants for TMDLs are met by the deadline.

3. See attached TMDL BMP table for information
4. See attached TMDL BMP table for information
5. See attached TMDL BMP table for information
6. See attached TMDL BMP table for information

E. Stormwater Activities

1. See attached Stormwater Activities Table for information.

F. SWMP Modifications

1. See Attached Table
2. Some changes have been made to the SWMP. Specifically, the creation of the post construction BMP manual and permit along with the staff training of post construction BMPs was delayed. We have been working in coordination with the engineering and real-estate communities to be able to create a manual that would have realistic and effective BMPs. We have been meeting monthly to work on the manual, but have found that we underestimated the time it would take to create.

Also, we are currently working in conjunction with SARA to create a post construction maintenance certification program. This program would be required to perform maintenance on all post construction BMPs permitted by Bexar County. All employees in the Storm Water Quality department took the training on February 11-12, 2016. We have some changes that will be made, but we expect the first certification class in April or May.

Finally, the above BMPs go hand in hand with the implementation of an annual renewal. This BMP will not be able to be completed until the above mentioned BMP is completed. Essentially, we have added an additional year to our completion dates. We fully expect to meet those newly extended dates.

Attached to this report is a presentation that was given to the Commissioners explaining the post construction permit process.

G. Additional BMPs

1. No additional BMPs are being considered at this time.

H. Additional Information

1. We are not relying on another entity to satisfy our permit. We do partner with other entities for site specific sampling and regional training.
2. Bexar County is not sharing a SWMP with other entities.

I. Construction Activities

1. Bexar County had **500** active permit sites this last permit year.
2. Bexar County does **NOT** utilize the seventh MCM.

MCM 1
Public Education, Outreach, and Involvement

Table 3-1 BMP's for Public Education, Outreach, and Involvement			
BMP	Activity	Measurable Goals	Completed by (Month and Year) or Frequency of Action
1	Water shed Signs	Maintain signs.	One Time Per Year
2	Annual Stormwater Report to Commissioner's Court	Present report to Commissioner's Court. If requested, accept and respond to public comments.	One Time Per Year. If requested.
3	Speaker's Bureau for Existing Community Groups	Submit proposals to present stormwater quality education materials at existing community groups. Give presentation to groups of residents.	Ongoing Four Times Per Year minimum
4	Public Anti-Littering and Dumping Brochure	Review and update brochure. Distribute at County facilities with routine public access. Distribute at County and community events.	December 2014. One Time Per Year
5	Onsite Sewage Facilities (OSF) Brochure	Review and update brochure. Distribute at County facilities with routine public access, at community events, during OSF permitting.	December 2014. One Time Per Year
6	Construction Site Brochure	Review and update brochure. Distribute brochures to fire, utility, driveway, flood, plating, septic, and subdivision permit applicants, during appropriate site inspections, and to appropriate groups (Association of General Contractors, Greater San Antonio Builders Association, Associated	December 2014. One Time Per Year
7	Educational Content on County Website	Post updated information. Track visitors to website with web counter.	Two Times Per Year
8	Conduct Bexar County Neighborhood Clean-Ups	Organize and participate in neighborhood clean-up events. On average, participate in six neighborhood clean-up events per year. Maintain list of events and their location.	Four events per calendar year.
9	Legal Public Notice	Notify Home Owner's Associations (HOA) or equivalent entity and have clean-up advertised in HOA newsletter. Provide personnel and equipment to pick up and dispose of non-hazardous waste materials.	Four times per calendar year. Four times per calendar year.
10	Public Involvement in Stormwater Program Development	Provide public notice regarding specific county actions requiring notice (e.g., adoption of new regulations, etc.). Notify the public regarding their opportunity for participation in stormwater program development by posting proposed stormwater BMP's and SWMP program elements on County website and at County courthouses. Provide mechanism for public to provide comments upon proposed elements and suggest additional recommendations. Evaluate public comments and incorporate suggestions into stormwater management plan.	As Needed May 1, 2014
11	Identify Goals and Objectives of Public Education and Outreach Program	Consider impairment pollutants and likely sources define public education goals and objectives.	December 1, 2014
12	Identify Target Audiences for Public Education and Outreach Program	Consider impairment pollutants, likely sources, and entities that generate the pollutants define target audience.	December 1, 2014

#

BMP is appropriate for reducing the discharge of pollutants in storm water	
YES OR NO	Explain.
NO	EXISTING BMP's Have found no correlation between signs and increased awareness or change in behavior
YES	EXISTING BMP's Commissioners generally do not request a presentation on annual report; however, they do ask for updates when specific issues come up.
YES	EXISTING BMP's 3 presentations were given to HOAs. We feel that through education, the community will become more willing to come into compliance. Also, they will be more aware of what to look for in the field and report any issues they see in the field.
YES	EXISTING BMP's We have found that constituents are more willing to come into compliance when they understand exactly what is they can and cannot do.
YES	EXISTING BMP's We have found that constituents are more willing to come into compliance when they understand exactly what is they can and cannot do.
YES	EXISTING BMP's We have found contractors are more likely to stay in compliance when they know what that is.
YES	EXISTING BMP's We will receive calls from the public if they could not find information on the website. This lets us know that the public is going on line and reading up on stormwater quality and that we need to update the website regularly.
YES	EXISTING BMP's Held 14 community cleanup. It helps for the community to become more involved, ask questions, and helps stop any illegal dumping that may occur in our MS4.
YES	EXISTING BMP's It allows for the community to become more involved and understanding of stormwater regulations.
YES	EXISTING BMP's We posted the permit for the required time. We had 6 emailed requests for a copy of the permit to review. We also emailed a copy to a large local council who forwarded it to all members. We received 1 comment concerning the post construction rules and permitting process. We will incorporate that into the permit process (due by Dec. 2015)
	NEW BMP's
YES	NEW BMP's Have been participating in the illegal dumping BWM meetings. Are targeting the oil industry related dumping.
YES	NEW BMP's Target audience will be those on the south side of the county near the oil boom.

Measurable goals Success?	
EXISTING BMP's	NEW BMP's
Goal Met	Goal Met
Goal met	Goal Met
Goal Met	Goal Met
Goal Met: 3 presentations given.	Goal Met: Had 6 requests for electronic form of permit. Only 1 comment.
Goal Met	Goal Met
Goal Met	Goal Met
Goal Met: information handed out at training, HOA meeting	Goal Met: information handed out at training, HOA meeting
Goal Met: 825 brochures handed out	Goal Met: 825 brochures handed out
Goal Met	Goal Met
Goal Met: distributed via email or NDV letter.	Goal Met: distributed via email or NDV letter.
Goal Met: 825 brochures handed out	Goal Met: 825 brochures handed out
Goal Met: Updated with new regulations	Goal Met: Updated with new regulations
Goal Met: handed out in NDV letters and Permit Letters	Goal Met: handed out in NDV letters and Permit Letters
Goal Met: 825 brochures handed out	Goal Met: 825 brochures handed out
Goal Met	Goal Met
Goal Met: Had 6 requests for electronic form of permit. Only 1 comment.	Goal Met: Had 6 requests for electronic form of permit. Only 1 comment.
Goal Met	Goal Met
Goal Met	Goal Met

MCM 2
 Illicit Discharge Detection and Elimination

#	BMP	BMP's for Illicit Discharge Detection and Elimination			Completed By (Month and Year) or Frequency of Action
		Activity	Existing BMP's	Measurable Goals	
13	Customer Service Phone Intake	Operate customer service phone line. Review record-keeping and follow-up procedures and modify if necessary. Publicize existing phone line.	EXISTING BMP'S	Track number of complaints received. Complete activity. Record methods by which phone line advertised.	Ongoing Annually Ongoing
14	Onsite Sewage Facilities Inspections	Conduct inspections of new systems and existing systems as licenses are renewed. Inspect/investigate and mitigate complaints.		Record number of inspections. Maintain log of complaints, investigation results, and mitigation actions.	Ongoing Ongoing
15	Litter Abatement	Perform litter abatement activities in public rights-of-way.		Maintain log of abatement activities.	Ongoing
16	Nuisance Abatement	Abate found nuisance conditions in public rights-of-way. Inspect known dumping areas monthly.		Maintain log of nuisance abatement activities including dates and locations.	Ongoing
17	Storm Sewer Map	Update and maintain map.		Update map and document date of revisions.	Annually
18	Employee Training	Train field maintenance crew employees on illicit discharge program.		Complete and document activity. Maintain log of attendees.	Annually
19	Illicit Discharge Regulation	Adopt regulations.		Complete and document activity.	Completed in August 2008
20	Identify Illicit Discharge Locations	Conduct maintenance crew drive-by inspection of MSA areas within the county. Inspect areas or discharges reported by the public.		Maintain a log of detected illicit discharges and follow-up actions. Maintain a log of detected illicit discharges and follow-up actions.	Annually
21	Illicit Discharge Investigation, Elimination, and Enforcement	Investigate source of identified discharge. Notify source facility or neighboring MSA about discharge and the requirement to mitigate the discharge. Initiate enforcement procedures against source facility if they fail to mitigate discharge.		Complete and document activity. Complete and document activity.	Within two weeks of finding discharge. Within two weeks of finding discharge.
22	OSSF Brochure	See Table 3-1 for description.		Complete and document activity.	Within four weeks of notifying source facility.
23	Internet Request for Service Form	Maintain request for service form website		See Table 3-1 for description. Document service requests and County follow-up actions.	See Table 3-1 for description. Ongoing.

#

#	YES OR NO	BMP is appropriate for reducing the discharge of pollutants in storm water	
		Explain.	Existing BMP's
13	YES	Phone line allows for citizens to call in directly to staff in charge of water quality. We have had issues with the hot line recently. It seems our hotline number used to be a number for the jail. We had to change it last year to reduce the number of wrong number phone calls. The calls for the jail were overwhelming.	
14	YES	Conducted 1300 inspections of new systems and 513 inspections for complaints of OSSF.	
15	YES	We have had 13 abatements this past year.	
16	YES	436 tons of trash was collected in the ROW by our service center.	
17	YES	Keeping an up to date storm sewer map has allowed us to back track 3 discharges successfully	
18	YES	Approximately 150 employees trained	
19	YES	Helped with enforcement of 43 discharge violations	
20	YES	Had 43 discharge violations that were brought into compliance	
21	YES	Had 43 discharge violations. 10% of cases went to JP court for enforcement	
22	YES	See MCM 1	
23	YES	Had 15 request from Your GOV	

#	Measurable goals	Success?
25	Goal Met	
26	Goal Met	
27	Goal Met: updated thorough tax bill.	
28	Goal Met	
29	Goal Met	
30	Goal Met	
31	Goal Met	
32	Goal exceeded: The storm sewer map is updated multiple times per year	
33	Goal Met	
34	Goal Met	
35	Goal Met	
36	Goal Met	
37	Goal Met	
38	Goal Met	
39	Goal Met	
40	See MCM 1	
41	Met Goal	

MCM 3

Construction Stormwater Runoff Control

#

BMP	Activity	Measurable Goals	Completed By (Month and Year) or Frequency of Action
24	Customer Service Phone Intake		
25	Internet Service Request Form		
26	Driveway and Utility Site Inspections	Inspect 100% of sites with driveway or utility permits. Document results.	Ongoing.
27	Construction Inspection and Permitting Regulations	Adopt regulations.	Completed August 8, 2008.
28	Prohibit Construction Related Discharges	Adopt regulations.	Completed August 8, 2008.
29	Site Development Permit Application Review	Review Site Development Permit applications for compliance with Bear County construction stormwater regulations.	Provide comments or approval on submitted applications within two weeks of receipt.
30	Site Inspections and Enforcement	Conduct construction site inspections and enforcement. Inspect 100% of active construction sites larger than 1 acre at least once. Maintain log of sites notifying Bear County of discharge under TXR150000. Maintain log of sites inspected, dates, and findings. Record number of sites inspected.	Inspect while active.
31	Construction Site Brochure		
32	Employee Training		
33	Update Construction Inspection and Permitting Regulations	Ask Commissioners Court to add "stop work" authority to regulations.	December 2015.

YES OR NO	Explain.
	BMP is appropriate for reducing the discharge of pollutants in storm water
24	See MCM 2
25	See MCM 2
26	100% of driveway permits are inspected
27	Allows for the enforcement of TXR150000
28	Allows for the enforcement of TXR150000
29	We had a 5% increase in permit submittals/ reviews
30	We had a 5% increase in permit inspections and enforcement. More sites are coming under compliance.
31	See MCM 1
32	See MCM 2
33	Stop work order will allow for further enforcement for problem sites. We shut down 27 sites for not meeting the Bear County Court Order Requirements. All were brought into compliance.

Measurable goals Success?
EXISTING BMP's
See MCM 2
See MCM 2
Goal Met
Goal Met: Court order/regulation was updated March 17, 2015
Goal Met: Court order/regulation was updated March 17, 2015
Goal met: Received 1.70 permits
Goal exceeded: 100% of 500 active sites are inspected on average 2 times for a total of 976 inspections. All inspections were recorded.
See MCM 1
See MCM 2
NEW BMP's
Goal Met: Updated Court Order was approved on March 17, 2015

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MCM 4

Post - Construction Stormwater Management in New Development and Redevelopment

BMPs for Post-Construction Runoff Control			
BMP	Activity	Measurable Goals	Completed By (Month and Year) or Frequency of Action
34	Post-Construction Regulation and Criteria Manual	Adopt post construction stormwater management regulations and reference City of San Antonio's Unified Development Code, Chapter 35, Section 35-5-4.	Adopted August 2008.
35	Adopt Permanent Stormwater Quality BMP Regulations	Adopt new regulations that require permanent stormwater quality BMPs in new development and significant redevelopment performed by third parties.	December 1, 2015
36	Plan Review and Approval Procedures for Permanent Stormwater Quality BMPs	Develop Stormwater Quality Permit application with Inspection, Operations, and Maintenance Plan, and annual renewal process. Train staff. Implement Stormwater Quality Permit process and review submitted applications. Enforce regulations as appropriate. Review 100% of submitted applications. Maintain log of applications reviewed and status. Document enforcement actions taken.	September 1, 2016 September 1, 2016 Initiate by December 2016
37	Inspections and Long-Term O&M of Permanent Stormwater Quality BMP for Third Party Owner/Operators	Create annual renewal process for Stormwater Quality Permit. Train staff. Implement annual renewal process for Stormwater Quality Permit. Enforce regulations as appropriate.	September 1, 2016 September 1, 2016 Initiate by December 2016
38	Inspections and Long-Term O&M of Permanent Stormwater Quality BMPs for County-Owned Facilities	Develop standard operating procedure and inventory of county-owned permanent water quality BMPs. Train staff. Implement inspection program.	June 1, 2015 September 1, 2015 Initiate by December 2015.

YES OR NO	BMP is appropriate for reducing the discharge of pollutants in storm water	Explain.
YES	YES	Allows for regulation of what is installed and when it should be installed.
YES	YES	Will allow for the creation of a post construction permitting process and enforcement
YES	YES	We saw a 30% increase in complaints related to Post-construction bmps. Permitting will allow for better regulation and enforcement
YES	YES	We saw a 30% increase in complaints related to Post-construction bmps. Inspection will allow for better enforcement. Current court order will require maintenance operators be "certified" and quarterly reports submitted to us to ensure current maintenance contract.
YES	YES	A third party conducts quarterly inspections and maintenance of the 15 basins owned by the County ensuring compliance over the Aquifer

Measurable goals Success?
EXISTING BMP's
Goal Met
NEW BMP's
Goal Met: New Court Order was approved on March 17, 2015
Currently working on application, operations and maintenance manual. On track to meet goal.
Currently working on training for post construction BMPs for staff. On track for Sept. deadline
Currently on track to meet goal by December
Currently on track to meet goal
Currently working on creating renewal process. On track to meet goal.
Currently working on training for post construction BMPs for staff. On track for Sept. deadline
Currently on track to meet goal
Currently on track to meet goal
Goal Met: All county owned BMP's inventoried
Goal Met: Third party maintains Bear County owned BMPs. Trained approximately 150 employees on PMP operation and maintenance.
Goal Met: Third Party (Clean Earth) is contracted to conduct inspections and maintenance of all county owned post construction BMPs.

MCM 5

Pollution Prevention/ Good Housekeeping for Municipal Operation

#	BMP	Activity	Measurable Goals	Completed By (Month and Year) or Frequency of Action
39	Pesticide/Herbicide Management	Maintain appropriate licenses and certifications of pesticide application staff.	Maintain list of employees and licenses.	Annually
40	Spill Response Kits	Maintain spill response kits at County facilities that conduct activities with the potential to contribute pollutants to stormwater.	Conduct annual audit. Maintain audit log and correct deficiencies.	Annually
41	Spill Response and Safety Employee Training	Conduct training of employees at County facilities that conduct activities with the potential to contribute pollutants to stormwater.	Train once per year. Maintain log of attendees.	Annually
42	Employee Training (O&M Positions)	Create training program for employees working in operations or maintenance jobs.	Complete training program development.	December 1, 2015
43	County Owned Facilities and Controls Inventory	Conduct and document annual employee training.	Train once per year. Maintain log of attendees.	Annually
		Develop inventory of County owned facilities and stormwater controls.	Develop initial inventory.	December 1, 2015
		Update inventory.	Complete inventory update.	Annually
44	Disposal of Waste Material	Dispose of waste materials in accordance with 30 TAC Chapters 330 or 335 as applicable.	For each disposal activity document the type of waste, the amount of the waste, the date, the transporter, and the destination.	Within one week of each disposal activity.
45	Maintenance Contractor Requirements and Oversight	Develop new standard contract language.	Complete development of new standard contract language that includes appropriate reference to standard operating procedures (SOPs) and stormwater plans.	December 2016.
46	Assessment of County Facilities and Operations	Contractually require service providers to comply with all control measures and operational procedures.	Include standard contract language and SOPs in all new contracts.	Utilize new language in all contracts awarded after December 2016.
47	Identify Pollutants of Concern at County Facilities	Provide adequate oversight of contractor activities.	Document oversight date, activity, and person.	Within one week of each activity performed by a contractor.
48	Develop Pollution Prevention Measures for County Facilities	Evaluate operations and maintenance activities at County owned facilities and conducted in the County.	Document results in written report.	December 1, 2015
49	Inspect County Facilities	Develop written pollution prevention plan for each County owned facility.	Document results in written report.	December 1, 2015
50	Maintain Structural Controls and County Owned Facilities	Implement inspections.	Complete activity.	December 1, 2015
		Conduct required maintenance activities of structural controls.	Document inspections.	At frequency defined in Facility Pollution Prevention Plans.

#

YES OR NO	BMP is appropriate for reducing the discharge of pollutants in storm water	Explain.
YES	Allows to make sure all 8 employees stay up to date on licenses.	EXISTING BMP's
YES	Supplies purchased annually for all County facilities in jurisdiction.	
YES	3 training opportunities annually to approximately 150 employees.	
YES	Have trained 150 employees. It is very important because of high turnover in positions due to off field.	
YES	Inventory created in conjunction with the pollution prevention plans and inspections. Storm Water Controls at those facilities are accounted for.	
YES	436 tons lbs of trash were collected and hauled to the landfill.	NEW BMP's
N/A	Have not implemented BMP	
YES	The assessment will allow for each facility to better control the water quality coming off site.	
YES	Pollutants of concern for each facility will enable the County to better control the quality of runoff off site.	
YES	All facilities have a pollution prevention plan created for them	
YES	Inspections are attached to pollution prevention plan. Inspections will be quarterly	
YES	Third party contractor conducts quarterly inspections and maintenance for county owned structural controls.	

#

Measurable goals Success?
EXISTING BMP's
Goal met
Goal Met
Goal Met
Goal met
On track to meet goal
Goal met
Goal met
NEW BMP's
Goal met
On track to meet goal
On track to meet goal
Goal Met

Impaired Water Bodies

Segment No.	Name	Priority	Priority
1910A	Upper San Antonio River (Delta Creek)	High	High
1910	Lower San Antonio River (Delta Creek)	Medium	Medium
1911	Upper San Antonio River	Medium	Medium

BACTERIA

BMP	Activity	Messurable Goals	Completed By (Month and Year) or Frequency of Action	Benchmark
Make Sanitary Sewer Improvements Address On-site Sewage Facilities	<p>NOT APPLICABLE (NA)</p> <p>Prepare map of septic systems, sanitary sewer systems, tracts of land, developed and (land use), and identify priority areas.</p> <p>Conduct study of map and conduct drive-by inspections of priority areas.</p> <p>Encourage owners and operators to address failing systems. Enforce on owners and operators that fail to mitigate failing systems.</p> <p>Visually inspect all creeks and drainage ways in impaired watersheds with approved TMDLs.</p> <p>Investigate and eliminate found discharges.</p> <p>Take enforcement actions as needed.</p> <p>Clean up dumping sites.</p> <p>Identify and map significant animal source facilities in impaired watershed with approved bacteria TMDLs.</p> <p>Evaluate animal source facilities and existing legal authority. Adopt new regulations (if required).</p> <p>Seek voluntary actions to reduce bacteria loads. Document Take enforcement action to compel load reductions.</p> <p>Include information about reducing bacteria load from residential activities including pet waste management in public education program goals and objectives.</p>	<p>Complete map.</p> <p>Identify priority areas in impaired watersheds with development and no sanitary sewer system for inspection. Inspect priority areas. Summarize inspection findings.</p> <p>Encourage system repairs. Enforce on owners as necessary. Summarize enforcement activities and enforcement activities.</p> <p>Document inspection findings.</p> <p>Document actions taken regarding found discharges.</p> <p>Document enforcement actions.</p> <p>Document findings and clean up actions.</p> <p>Complete map and inventory.</p> <p>Document findings.</p> <p>Adopt regulations (if required).</p> <p>Complete and document activities.</p> <p>Complete and document activities.</p> <p>See Section 3.3.1</p>	<p>NA</p> <p>Dec-15</p> <p>Identify priority areas by June 2016. Inspect 33% of priority areas each year by December 2016, December 2017 and December 2018.</p> <p>Document communications to owners as they occur. Document enforcement actions as they occur.</p> <p>Complete by December 2015.</p> <p>Complete by December 2015.</p> <p>Complete by December 2015.</p> <p>Complete by December 2015.</p> <p>Dec-15</p> <p>Dec-16</p> <p>Dec-17</p> <p>Dec-18</p> <p>See Section 3.3.1</p> <p>Dec-15</p> <p>Dec-16</p> <p>Dec-18</p>	<p>NA</p> <p>Complete map on time.</p> <p>Complete identification of priority areas on time.</p> <p>Complete inspections on time.</p> <p>Communicate or enforce on identified failing septic systems within three months of identification.</p> <p>Complete and document findings on time.</p> <p>Complete activity on time.</p>

Benchmark Achieved/ How Effective	YRS Conducted	Benchmark Indicator	Description/ Comments
Map has been developed and will be updated annually. GIS map of septic systems and sanitary sewer systems are currently made.	Benchmark Met (1 yr)	Increase in number of found failing systems, increase in number of discharges, increase in number of systems inspected	We would expect to see an increase in failing systems since we will be looking for them. Also, we would want to see an increase in discharges of those systems to ensure they do come into compliance. An increase in all of these metrics would indicate that we are finding more failing systems and that we are addressing those pollutants from entering the MS4.
Currently on track. By conducting drive-by inspections of priority areas and enforcing maintenance, we will reduce the amount of bacteria turning off into the MS4.	Benchmark not due. On track to meet benchmark.		
Bear County has established a renewal permit that requires septic owner to maintain septic systems and we are working to enforce these systems in maintenance contracts. This encourages owners to maintain their systems in working order to help reduce the number of failing systems and ultimately reduce the amount of bacteria introduced into the MS4.	Benchmark Met (1 yr)		
We currently inspect all creeks and drainage ways in impaired watersheds with a 2 day helicopter flight during the winter months to ensure visibility of banks.	Benchmark Met (1 yr)	Increase in number of discharges and number of reported discharges from public, increase in cleanups	We would expect to see an increase in the number of discharges and reported discharges with an increase being reported to the office. Through educating the public, the hope is they will see what the issue is and report it when they see it. Then we would have more information to take enforcement actions. Enforcement when we find those discharges and connections into compliance. Any increase seen would show that issues are being found and dealt with. Finally, if we see more issues, they will be dealt with and cleaned thus reducing the pollutants entering the MS4.
43 discharge violations were found the past permit year. Each discharge was addressed with a Notice of Violation. If the site does not come into compliance then the violator is taken to court. We took 10% to JP court for enforcement.	Benchmark Met (1 yr)		
Bear County conducted 13 nuisance abatement this year. By reducing the amount of trash on ground near or in the MS4, we will reduce the amount of bacteria.	Benchmark Met (1 yr)		
After investigating and checking for TMSD2000 permits, we have found no significant animal source facilities in the impaired watersheds with approved bacteria TMDLs. We will continue to monitor each to ensure we know of any violations.	Benchmark Met	Increase in education, increase in reporting, increase in compliance without enforcement	We would expect to see an increase in the amount of educational materials handed out and along with that an increase in compliance without enforcement (i.e., they will better understand the issues and be willing to comply with them).
Currently on track to meet benchmark.	Benchmark not due. On track to meet benchmark.		
Currently on track to meet benchmark.	Benchmark not due. On track to meet benchmark.		
Currently on track to meet benchmark.	Benchmark not due. On track to meet benchmark.		
Are currently updating brochures to reflect bacteria load issues and how the public can help reduce the loading. We have more than 400 copies in Bear County and we are working to get more out there. We are also working to get more brochures out there by simply informing the public, they become more willing to comply and sometimes even go beyond. Education is always a good way to reduce pollutants.	Benchmark not due. On track to meet benchmark.	Increase in bacteria related complaints, increase in information handed out.	We would expect to see an increase in complaints related to bacteria since the handouts/brochures would be more available. We would also expect to see an increase in public who recognize those issues and report them to us so that they can be brought into compliance or dealt with accordingly to reduce the amount of bacteria entering the MS4.
Benchmark Met. The animal control court order was updated in December and approved in January. It directly calls out violations concerning animal waste. By updating the order, we help reduce bacteria loads in the MS4.	Benchmark Met (1 yr)		We our animal control department makes (only 2 yr old) we expect that more stray animals will be collected off the street and the pet waste from stray animals wandering through the drainage areas will decrease. Also, we hope that more pet owners will be educated about pet waste issues so that we can have those issues brought into compliance and thus helping to reduce bacteria in the MS4.
Benchmark Met. The animal control court order was updated in December and approved in January. It directly calls out violations concerning animal waste.	Benchmark Met (1 yr)	Increase in stray animals collected, increase in public reporting	

Dissolved Oxygen

Table 8.4 – Targeted BMPs, Addressing Discharge Program, TMDL								
BMP	Activity	Measurable Goals	Completed By (Month and Year) or Frequency of Action	Benchmark	Benchmark Achieved? and How Effective	VRS Conducted	Benchmark Indicator	Description / Comments
Education on Landscaper Maintenance and Pet Waste	See Section 3.1.1.	See Section 3.1.1.	See Section 3.1.1.	Complete activity online	An currently updating brochures to reflect education on landscape maintenance and pet waste. The pet waste brochure will be through the animal protection department and the landscaping brochure will be through the post construction BMP program. We plan to start in December 2016. We feel that it makes the most sense to introduce the landscape maintenance at a time when maintenance will be required. Through education of proper landscape maintenance and pet waste collection, we feel that the community will help in the reduction of pollutants in the MSA.	Benchmark not due. On track to meet benchmark (DEC 16)	Increase in public reporting of pet waste issues, increase in public reporting of landscape issues	We would expect that as the post construction BMP program is implemented, we would expect to see an increase in public reporting of pet waste issues and an increase in public reporting of landscape issues. We would also expect to see an increase in report of pet waste issues and an increase in report of landscape issues on pet waste. Finally, we expect to see an increase in stray animal pick up. An increase in stray animal pick up would reduce the amount of animal waste in drainage areas.
Address On-Site Sewage Facilities	See Section 4.2.2.2.	See Section 4.2.3.2.	See Section 4.2.3.2.	Complete activity online	Are currently in the process of creating GIS layer/ map of all septic systems, sanitary sewer lines and priority land tracts. We currently have a map with septic systems and sanitary sewer lines. We are putting together the land tract priority to add to the map. We will then go through and show which septic systems are in certain areas. We will then go through and show which septic systems are in certain areas with inspections and abatements to help ensure a reduction in pollutants introduced to the MSA.	Benchmark met.	Increase in number of found failing systems, increase in number of systems coming into compliance, increase in number of systems inspected	We would expect to see an increase in failing systems since we will be looking for them. Also, we would want to see an increase in those failing systems coming into compliance and no longer being 3/16 in that we expect ensure they do come into compliance. An increase in all of these areas will let us that more issues are being found and dealt with and thus eliminating those pollutants from entering the MSA.
Illicit Discharge Detection Program	See Sections 4.2.2 and 4.2.3.	See Sections 4.2.2 and 4.2.3.	See Sections 4.2.2 and 4.2.3.	Complete activity online	All new septic systems, reported failing systems, renewal permits of systems are inspected. These inspections ensure that septic systems are installed appropriately and will be working correctly. We then have a 5 year renewal in which we inspect the system to ensure it is working properly. Also, our service center collects litter on Baxter County ROW as it is found. Through these actions, Baxter County is able to reduce the amount of pollutant loads entering the MSA.	Benchmark met.	Increase in number of inspections for septic systems, increase in clean ups (litter abatement), increase in reporting of these issues	We would expect to see an increase in failing systems since we will be looking for them. Also, we would want to see an increase in those failing systems coming into compliance and no longer being 3/16 in that we expect ensure they do come into compliance. An increase in all of these areas will let us that more issues are being found and dealt with and thus eliminating those pollutants from entering the MSA.

Section E. Stormwater (Part IV Section B.2(d))

MCM(s)	BMP	Stormwater Activity	Description/Comment
#4	Adopt Permanent Stormwater Quality BMP Regulations	Adopt new regulations that require permanent stormwater quality BMPs in new development and significant redevelopment performed by third parties.	Complete activity by December 1, 2015
#4	Plan Review and Approval Procedures for Permanent Stormwater Quality BMP's	Develop Stormwater Quality Permit application with Inspection, Operations, and Maintenance Plan, and annual renewal process.	Complete Activity by June 1, 2016
		Train staff.	Complete Activity by September 1, 2016
		Implement Stormwater Quality Permit process and review submitted applications. Enforce regulations as appropriate.	Review applications on an ongoing basis. Enforce on an ongoing basis. Initiate by December 2016.
#4	Inspections and Long-Term O&M of Permanent Stormwater Quality BMP for Third Party Owner/Operators	Create annual renewal process for Stormwater Quality Permit.	Complete Activity by June 1, 2016
		Train staff.	Complete activity by Sept 1, 2016
		Implement annual renewal process for Stormwater Quality Permit. Enforce regulations as appropriate.	Initiate by December 2016. Review applications on an ongoing basis. Enforce on an ongoing basis.
#4	Post-Construction Regulation and Criteria Manual	Develop manual outlining Post Construction Permanent BMP's requirements to be included in new and re-development scopes.	Complete and implement by December 1, 2016
#4	Inspections and Long-Term O&M of Permanent Stormwater Quality BMPs for County-Owned Facilities	Develop standard operating procedure and inventory of county-owned permanent water quality BMPs.	Complete activity by June 1, 2016
		Train Staff.	Complete Activity by September 1, 2016
		Document and Inspection Program	Initiate by December 2016. Conduct annual Inspections in future years.
#5	Maintenance Contractor Requirements and Oversight	Complete development of new standard contract language that includes appropriate reference to standard operating procedures (SOPs) and stormwater plans.	Utilize new language in all contracts awarded after December 2016.
		Contractually require service providers to comply with all control measures and operational procedures. Provide adequate oversight of contractor activities.	Within one week of each activity performed by a contractor.
#5	Inspect County Facilities	Develop written inspection procedure and check list.	Complete activity. December 1, 2015
		Implement inspections.	Document inspections. At frequency defined in Facility Pollution Prevention Plans.
#5	Maintain Structural Controls and County Owned Facilities	Conduct required maintenance activities of structural controls.	Document activity. At frequency defined in Facility Pollution Prevention Plans.

Section F. SWMP Modifications (Part IV Section B.2.(e))

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
4: Plan Review and Approval Pcedures for Permanent Stormwater BMPs	Develop Stormwater quality permit application inspection, operations, and maintenance plan, and annual renewal process: (June 2015)	NOC has been submitted with this annual report to request a change in BMP completion from <u>June 2015 to June 2016</u> . Permit application, inspection operations, maintenance plan and annual review are in the process of being developed. We have been working with the engineering community and real-estate community to ensure that realistic and effective post-construction BMPs are created. We have been meeting monthly to create a BMP manual. Finalization of the manual is currently taking place (Feb - Mar 2016)
4: Plan Review and Approval Pcedures for Permanent Stormwater BMPs	Train Staff (Sept 2015)	NOC has been submitted with this annual report to request a change in BMP completion from <u>Sept 2015 to Sept 2016</u> . We are currently working in conjunction with SARA and their LID manual to help create a training certification program. The program is currently being finalized. It will consist of a 2 day course with a test at completion. 80% is passing and the maintenance provider will be required to have this certification to perform maintenance in the County for post construction BMPs. Expected to be \$20 course. All of the Bexar County Storm Water Quality staff have taken the training as of February 12, 2016.
4: Plan Review and Approval Pcedures for Permanent Stormwater BMPs	Implement Stormwater Quality Permit process and review submitted applications. Enforce Regulations as appropriate. (Dec 2015)	NOC has been submitted with this annual report to request a change in BMP completion from <u>Dec 2015 to Dec 2016</u> . Once the manual and training is finalized, the program will be initiated with 100% of submittals being reviewed.
4: Inspections and Long Term O&M Permanent Storm Water Quality BMP for Third Party Owner/ Operators	Create annual renewal process for Stormwater Quality Permit (June 2015)	NOC has been submitted with this annual report to request a change in BMP Completion from <u>June 2015 to June 2016</u> . This BMP goes hand in hand with the one above. Once we are able to complete the permit application and process, the renewal process will be created and implemented. We are on track to meet this new time line.
4: Inspections and Long Term O&M Permanent Storm Water Quality BMP for Third Party Owner/ Operators	Train Staff (Sept 2015)	NOC has been submitted with this annual report to request a change in BMP completion from <u>Sept 2015 to Sept 2016</u> . We will be utilizing the same training for staff as with the general public. All third party contractors who perform maintenance on permitted PBMPs . A two day course with a test passing rate of 80% is required for certification. All Storm Water Quality staff have taken this course as of February 12, 2016.
4: Inspections and Long Term O&M Permanent Storm Water Quality BMP for Third Party Owner/ Operators	Implement annual renewal process for Storm water Quality Permit. Enforce regulations as appropriate (DEC 205)	NOC has been submitted with this annual report to request a change in BMP completion from <u>Dec 2015 to Dec 2016</u> . The annual renewal process will be implemented once the program is implemented. Again, this goes hand in hand with the above BMP. We are on track to meet the newly updated timeline.

STORM SITES

Active Sites	Total ACTIVE Sites:	500
	Inspections:	975
New Sites(2014)	Total NEW Sites:	170
	Inspections:	330

Work Orders	
Total Requests	1789
Total Inspections	5367
Total Closed	1122
Total Open	637

Work Order Break Down

Illegal Dumping	18
Junk / Trash / Rubbish - on private property	2
Trash	155
Septic Violation(s)	513
High Weeds	416
Garbage	19
Junk Vehicle(s)	113
Rubbish	348
Unsanitary Conditions	102
Dilapidated Structure	20
Flooding Review	8
Safety Issues	11
Minor Stormwater	9
Sediment in Street	2
Illicit Discharge	13
SW3P Review	2
BMP's Review	3
Site Development Permit	2
Illegal Dumping	18
Illegal Fill	3
Unprotected Swinning Pool	3
Working in Flood Plain	2
Hazard to Health or Safety	1
environmental	2
Drainage problem	4
Total	1789

Illicit Discharge

Helicopter Flyover	
Stream Miles:	600 miles
Target Pollutant:	Floatables: tires and trash along steam bank

Service Center Information

Dead Animals Collected from Drainage ways:	965 animals
Street Sweeping:	241 miles
Trash and Debris Removal from Drainage Areas:	436 tons
Drainage Area Mowed:	4032acres
Drainages Cleaned:	90
Drainages Repaired:	70
Neighborhood Cleanups:	14



Notice of Change (NOC) to an Authorization or Waiver for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4) under the TPDES Phase II MS4 General Permit (TXR040000)

IMPORTANT – Please read the following information and [INSTRUCTIONS](#) before filling out this form.

This form will be returned for any of the following reasons:

- 1) The authorization number is not provided, is invalid, or is no longer active,
- 2) Wet ink signature of person meeting signatory requirements is not provided,
- 3) The current permittee is not the applicant, and;
- 4) A requested change in operator name is not a legal name change.

This form cannot be used for a change in Operator. Refer to the general permit for information.

What is the authorization or waiver to be changed? TXR040031 or TXRMW_____

1) OPERATOR (PERMITTEE):

- a) What is the full Legal Name of the current Operator as on the authorization?
Bexar County
- b) What is the Customer Number (CN) assigned to this operator? You may search for your CN at: <http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>
 CN 600242192
- c) What is the Regulated Entity Reference Number (RN) assigned to this site?
 RN 105480693
- d) What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in TAC §305.44.
 Prefix (Mr. Ms Miss): Ms
 First/Last Name: Renee D. Green Suffix: _____
 Title: Bexar County Engineer, Director of Public Works Credential: P.E.

2) APPLICATION CONTACT

If TCEQ needs additional information regarding this application, who should be contacted?

Prefix (Mr. Ms. Miss): Mr
 First/Last Name: Andrew Winter Suffix: _____
 Title: Bexar County Environmental Engineer Credential: P.E.

Organization Name: Bexar County
Phone Number: (210) 335-6700 Extension: 6487 Fax Number: (210) 335-6713
E-mail Address: awinter@bexar.org
Mailing Address: 233 N. Pecos Ste. 420
Internal Routing (Mail Code, Etc.): _____
City: San Antonio State: TEXAS ZIP Code: 78207
Mailing Information if outside USA
Territory: _____ Country Code: _____ Postal Code: _____

3) REQUESTED CHANGE TO PERMITTED INFORMATION

What information has changed or needs to be corrected? Check one or more of the following options and enter the new information below.

- Operator legal name change with Texas Secretary of State (TX SOS)
Note: Authorizations are not transferable. If a change in entity has occurred, this NOC is not attainable.
- Address and contact information for operator or billing for annual fee
- Site Information (Regulated Entity).
Note: Authorizations under a general permit are site specific. If a change in site location has occurred, this NOC is not attainable.
- Change to the approved Stormwater Management Program (SWMP)

a) Operator Legal Name Change

1. What is the NEW active Legal Name with TX SOS or on other legal document?
New Legal Name: _____
2. What is the TX SOS Filing Number for us to confirm this official name change?
(This is only applicable to Limited Partnerships or Corporations.)
TX SOS Filing number: _____

b) Address and Contact Information Change

1. What information has changed? Check one or more as applicable.
 - Operator mailing address for permit correspondence
 - Billing address/contact for receiving Annual Fee Statement
2. Is the updated information the same for each selection?
 - Yes - Provide the updated information in the fields below.
 - No - Use Attachment 1 of the NOC to provide the updated address.

Prefix (Mr. Ms. Miss): _____
First/Last Name: _____ Suffix: _____
Title: _____ Credential: _____
Organization Name: _____
Phone Number: _____ Extension: _____ Fax Number: _____
E-mail Address: _____

Mailing Address: _____
Internal Routing (Mail Code, Etc.): _____
City: _____ State: _____ ZIP Code: _____
Mailing Information if outside USA:
Territory: _____ Country Code: _____ Postal Code: _____

c) Regulated Entity (RE) Site Information Correction or Update

1. Updated or corrected description of the regulated MS4 boundaries:

2. Other update to regulated entity information. Please explain.

d) Change to the Approved SWMP

Check the applicable item(s) to be changed or updated and complete the section for each item. Reference the attachment for each item.

- Add the 7th Minimum Control Measure (MCM) to the approved SWMP.

Complete Attachment 2 of the NOC and the following question:
Are you seeking to use the 7th MCM only in the regulated (urbanized) area?

- Yes – Attach the MCM with Attachment 2 of the NOC.
 No – Attach the MCM with Attachment 2 of the NOC and indicate Yes to the following certification*:

I certify that the MS4 is in compliance with all of the MCMs listed in this general permit, in the MS4's additional area where the 7th MCM will be utilized.

- Yes

*Failure to indicate YES to this certification will result in denial.

- Request to update the approved SWMP, replacing a less effective or infeasible Best Management Practice (BMP) specifically identified in the SWMP with an alternate BMP. The request must include the following:

- An explanation of why the BMP was eliminated.
 An explanation of the effectiveness of the replacement BMP.
 An explanation of why the replacement BMP is expected to achieve the goals of the replaced BMP.

Are the revisions to the approved SWMP attached?

- Yes, enclosed as _____

Other requested changes to the approved SWMP requiring TCEQ approval.

Are the revisions to the approved SWMP attached?

Yes, enclosed as Table F from annual report, updated MCM #4 table, Final Draft PBMP Manual and Calculation sheet, and power point presentation explaining current progress.

4) OPERATOR CERTIFICATION

I, _____
Typed or printed name *Title*

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

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

Signature: _____ Date: _____
(Use blue ink)

**Attachment 1 to a NOC Form for Providing Address & Contact Information Related
to a Specific Authorization or Waiver under the Phase II MS4 General Permit
TXR040000**

Authorization or Waiver Number (required): TXR04 or TXRMW

Provide additional address and contact information below. Incomplete and invalid addresses will not be used. Verify mailing addresses at: <https://tools.usps.com/go/ZipLookupAction!input.action>

A. Operator

Phone Number: _____ Extension: _____ Fax Number: _____
E-mail Address: _____
Mailing Address: _____
Internal Routing (Mail Code, Etc.): _____
City: _____ State: _____ ZIP Code: _____
Mailing Information if outside USA
Territory: _____ Country Code: _____ Postal Code: _____

B. Billing Contact Information and Address for Receiving Annual Fee Statement

Prefix (Mr. Ms. Miss): _____
First/Last Name: _____ Suffix: _____
Title: _____ Credential: _____
Organization Name: _____
Phone Number: _____ Extension: _____ Fax Number: _____
E-mail Address: _____
Mailing Address: _____
Internal Routing (Mail Code, Etc.): _____
City: _____ State: _____ ZIP Code: _____
Mailing Information if outside USA
Territory: _____ Country Code: _____ Postal Code: _____

Attachment 2 to a NOC Form for adding the Optional 7th Minimum Control Measure Related to a Specific Authorization or Waiver under the Phase II MS4 General Permit TXR040000

7th Minimum Control Measure Cover Sheet

This cover sheet MUST be completed by indicating the page number where the requested item will be found in the MCM. Provide the page number in the left column for each item. The questions relating to the Edwards Aquifer must also be answered.

This cover sheet MUST be attached to the front of the MCM.

Operator Name on NOI: _____

Optional 7th MCM: Municipal Construction Activities (only available within the regulated area where the MS4 operator meets the definition of construction site operator)

If this MCM is utilized applicable, SWMP must include the following information:

Page # (s)

Description of how construction activities will generally be conducted so as to take into consideration local conditions of weather, soils, and other site specific considerations

Description of the area that this MCM will address and where the MS4 operator's construction activities are covered (e.g. within the boundary of the urbanized area, the corporate boundary, a special district boundary, an extra territorial jurisdiction, or other similar jurisdictional boundary)

If the area included in this MCM includes areas outside of the UA, then all MCMs will be implemented over those additional areas as well.

Description provided for one of the following:

- How contractor activities will be supervised or overseen to ensure that the Stormwater Pollution Prevention Plan (SWP3) requirements are properly implemented at the construction site(s); or
- How the MS4 operator will make certain that contractors have a separate authorization for storm water discharges if needed.

General description of how a construction SWP3 will be developed for each construction site.

Edwards Aquifer Rule

Is the discharge or potential discharge from regulated construction activities within the Recharge Zone, Contributing Zone, or Contributing zone within the Transition zone of the Edwards Aquifer?

- Yes - If Yes, please note that a copy of the agency approved Water Pollution Abatement Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) must be either included or referenced in the construction SWP3(s).
- NO

**Notice of Change (NOC) to an Authorization or Waiver for Stormwater Discharges
from Small Municipal Separate Storm Sewer Systems (MS4) under the TPDES
Phase II MS4 General Permit (TXR040000)**

GENERAL INFORMATION

Where to Send the NOC:

BY REGULAR U.S. MAIL:

Texas Commission on Environmental Quality
Applications Review and Processing Team
(MC-148)

P.O. Box 13087

Austin, Texas 78711-3087

BY OVERNIGHT/EXPRESS MAIL:

Texas Commission on Environmental Quality
Applications Review and Processing Team
(MC-148)

12100 Park 35 Circle

Austin, TX 78753

TCEQ Contact List:

Small Business and Local Government Assistance	800/447-2827
Application – status and form questions:	512/239-4671
Technical questions:	512/239-4671
Environmental Law Division:	512/239-0600
Records Management - obtain copies of forms:	512/239-0900
Reports from databases (as available):	512/239-DATA (3282)
Cashier's office:	512/239-0357 or 512/239-0187

NOC Process:

1. Administrative Review: The form will be reviewed to ensure the request is from the permittee (operator) on the authorization, the permit is active and initial coverage was acknowledged. Each item on the form will be reviewed for a complete response. In addition, the operator's legal name change must be verified with Texas Secretary of State (if applicable). The address(s) on the form must be verified with the US Postal Service (USPS) as an address receiving regular mail delivery. Never give an overnight/express mailing address.

If an item is incomplete or not verifiable, the operator may be notified by letter, phone call or email. In some instances as noted at the beginning of the form, the request may simply be returned.

2. NOC Confirmation: An updated Acknowledgment Certificate will be mailed to the operator only if the NOC is to change information provided on the acknowledgment certificate. The original coverage effective date will not change.

General Permit (Your Permit) and Forms

You may view and print the general permit on the TCEQ web site <http://www.tceq.texas.gov>. Search using key word TXR040000. General Permit Forms (NOI, Waiver, NOT, and NOC) and instructions are available on the TCEQ web site <http://www.tceq.texas.gov>.

Change in Operator

An authorization under the general permit is not transferable. If the operator of the regulated entity changes, the present permittee must submit a NOT and the new operator must submit a NOI. The NOI must be submitted not later than 10 days prior to the change in Operator status. Note that the NOT is effective on the postmarked date. It may be necessary to not terminate the existing permit until coverage by the new entity is confirmed.

TCEQ Central Registry Core Data Form

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. You can find the information on the Central Registry web site at <http://www12.tceq.texas.gov/crpub/index.cfm>.

You can search by the Regulated Entity (RN), Customer Number (CN) or Name (Permittee), or by your permit number under the search field labeled *Additional ID*.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all associated authorizations as changes occur. For General Permits, a Notice of Change form must be submitted to the program area for approval to update the CN and RN data in central registry.

INSTRUCTIONS FOR FILLING OUT THE NOC FORM

1) Operator (Permittee)

a) Legal Name. Provide the current legal name of the permittee, as on the permit.

b) Customer Number (CN). TCEQ's Central Registry will assign each customer a number that begins with CN, followed by nine digits. You may search for your CN at: <http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>.

If the name(s) provided do not match the current permittee name(s), this form will be returned. It is the responsibility of the permittee(s) to comply with the general permit.

Note: If a change is being made to the CN and the CN has other TCEQ authorization types, it is the entity's responsibility to update those authorizations at the same time. If an authorization has been cancelled or terminated, the name cannot be changed on the permit. Because of this, a new CN may be issued for the new name.

c) Regulated Entity Reference Number (RN). This is a number issued by TCEQ's Central Registry to sites (a location where a regulated activity occurs) regulated by TCEQ. This is not a permit number, registration number, or license number. Search for your RN: <http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch>.

If the site has changed or the information provided indicates a new location, this form will be returned. It is the responsibility of the permittee to comply with the general permit.

d) Person Signing this Application. Provide the name and title of the person signing the application. The person must be an executive official meeting signatory requirements in TAC §305.44.

2) APPLICATION CONTACT

Provide the name, title and contact information of the person that TCEQ can contact for additional information regarding this application.

3) REQUESTED CHANGE TO PERMITTED INFORMATION

Check one or more of the available options indicating the information in the form that is to be updated. Provide the updated information for Legal Name Change, Address and Contact Information Change, Regulated Entity Site Information Change, and/or Change to the Approved SWMP.

a) Legal Name Change. Provide the new legal name. The permits are not transferable. If the operator changes, the old entity must terminate their permit and the new entity must submit a form for a new permit.

b) Address and Contact Information Change. Indicate the type of address and contact information that has changed from the original NOI or last NOC submitted to TCEQ.

If the address and/or contact information is the same for all types, then check each type and enter the information in the fields on the form. If some types have different information, then use the NOC ATTACHMENT 1. The permit number MUST be written on ATTACHMENT 1 to indicate it is a part of the NOC form for the permit being updated. The updates cannot be made without reference to the submitted NOC form.

Verify mailing addresses with USPS <https://tools.usps.com/go/ZipLookupAction!input.action> for regular mail delivery (not overnight express mail). If you find that the address is not verifiable please indicate the address is used by the USPS for regular mail delivery. Failure to provide a valid mailing address will delay or prohibit us from updating the permit.

Please note that address updates relating to a general permit authorization can ONLY be made through a Notice of Change. Address changes submitted through any other form cannot be processed.

c) Regulated Entity Site Information Change. The NOC form is only for use to update or correct information submitted on the original application or last NOC for the authorization. The authorization under a general permit is site specific. If this change is related to a new location, a Notice of Change is not attainable.

d) Change to the Approved SWMP

The optional 7th Minimum Control Measure (MCM) can be added through an NOC after approval of the NOI and SWMP. The MCM is limited to the regulated area, such as the portion of the MS4 located within an urbanized area or the area designated by TCEQ as requiring coverage. This MCM may also be utilized over additional portions of the MS4 as long as the MS4 is in compliance with all of the MCMs listed in the general permit.

If the NOC is to add MCM 7th then Attachment 2 of the NOC must be provided.

Replacing a less effective or infeasible BMP specifically identified in the approved SWMP with an alternate BMP may be requested. The request must include:

- an explanation of why the BMP was eliminated.
- an explanation of the effectiveness of the replacement BMP.
- an explanation of why the replacement BMP is expected to achieve the goals of the replaced BMP.

Unless denied by the TCEQ in writing, the change shall be considered approved and may be implemented by the permittee 60 days from submitting the request. Other requested changes to the approved SWMP require written approval from TCEQ prior to implementing.

4) OPERATOR CERTIFICATION

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

IF YOU ARE A CORPORATION:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

IF YOU ARE A MUNICIPALITY OR OTHER GOVERNMENT ENTITY:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the Texas Commission on Environmental Quality's Environmental Law Division at 512/239-0600.

30 Texas Administrative Code

§305.44. Signatories to Applications

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

POST CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP) FOR PRIVATE DEVELOPMENTS



Background

Bexar County's Storm Water Quality Phase II MS4 Permit with TCEQ requires:

1. "All permittees shall develop, implement and enforce a program... to control stormwater discharges from new development and redeveloped sites that discharge into the small MS4 (municipal separate storm sewer system) that disturb one acre or more..."
2. "All permittees shall document and maintain records..."
3. "All permittees, shall to the extent allowable under state, federal, and local law, ensure the long-term operation and maintenance..."

Permit was approved by TCEQ on October 29, 2014 and by Commissioner's Court on March 17, 2015, with an implementation by December 31, 2015.

What Are Post-Construction BMPs

Edwards Aquifer Required Above and Below Ground Detention

Low Impact Development (LID)

Vegetative Filter Strips and Permeable Concrete/Asphalt

What We Did

- Met with Development Process Task Force (DPTF) and Real Estate Community to discuss the acceptable Post Construction BMPs and an associated guidance manual.
- Bexar County, the DPTF and the Real Estate Community worked in partnership to develop a manual with realistic and effective BMPs
- The final product known as "The Bexar County Water Quality and Maintenance Manual" incorporated comments from SARA.

Bexar County Water Quality & Maintenance Manual Provides For:

Post Construction Best Management Practices (BMPs) such as:

- Structural BMPs**
 - Detention/ Retention Ponds
 - Floatable Collection Devices
 - Low Impact Development (LID)
- Non-Structural BMPs**
 - Public Education
 - Inlet Markers
 - Storm Water Mitigation Fund

- Project Mitigation Scoring Sheet**
 - Calculates site specific required mitigation points.
 - Points based on various categories such as:
 - Impervious Cover (I.C.)
 - Sensitive feature and tree preservation

Land Use	Target I.C. %	Mitigation Points
Residential Single Family	35%	Mitigation points required is the difference between actual I.C. and target I.C. (1% = 1 pt)
Multi-Family	50%	
Commercial	60%	

Example Project Mitigation Calculations

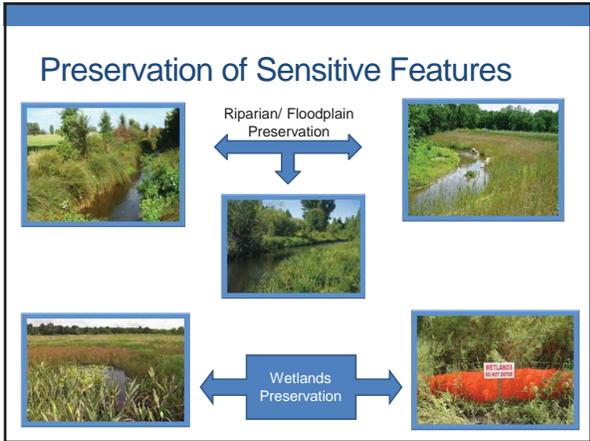
Single Family Project With 50% I.C.	Commercial Project With 90% I.C.
<ul style="list-style-type: none"> Actual I.C. = 50% Target I.C. = 35% Difference of 15% I.C. 	<ul style="list-style-type: none"> Actual I.C. = 90% Target I.C. = 60% Difference of 30% I.C.
<ul style="list-style-type: none"> 1% = 1pt 	<ul style="list-style-type: none"> 1% = 1pt
<ul style="list-style-type: none"> Mitigation points required: 15 pts 	<ul style="list-style-type: none"> Mitigation points required: 30 pts

Project Mitigation BMP Point Scoring

Post Construction BMP	Mitigation Points
Public Outreach	2
Inlet Markers	3
Disconnected Downspouts	5
Roadside Swale	5
Naturally Occurring Sensitive Features	
Floodplain	1pt/ 2.5% preserved
Riparian Buffers	1pt/ 2.5% preserved
Wetlands	1pt/ 2.5% preserved
Steep Slopes	1pt/ 2.5% preserved
High Infiltrating Soils	1pt/ 2.5% preserved
Landscaping & Tree Preservation	
Preservation of Existing Tree Canopy	1pt/ 2% existing canopy preserved
Planting of New Tree Canopy	1pt/ 4% new tree canopy
CoSA FILO Payment	5
Storm Water Mitigation Fund	Up to 50% of mitigation pts. required
Structural BMP (i.e. Detention Basins)	1pt/ 2% TSS removal
Storm Water Quantity Reduction	
Flow Rate Reduction	15
Volume Reduction	15

Public Outreach BMPs

The slide displays various public outreach BMPs. On the left, there are three circular 'NO DUMPING' signs with different messages: 'NO DUMPING - PLEASE USE THE TRASH CAN', 'NO DUMPING - PLEASE USE THE RECYCLING BIN', and 'NO DUMPING - PLEASE USE THE RECYCLING BIN'. In the center, there are two blue arrows pointing towards the text 'Inlet Markers'. To the right, there is a photograph of a concrete inlet marker. Below these, there are three circular 'Manhole Covers' with different designs, one of which has the text 'KEEP OUT A CHILD' and 'PLEASE USE THE TRASH CAN'. A blue arrow points from the manhole covers towards the text 'Manhole Covers'.



Structural BMPs

The slide displays four types of structural BMPs. Each is accompanied by a photograph and a label: 'Detention/ Retention Basins' (a large grassy area with a concrete basin), 'Permeable Pavement' (a paved area with a grid pattern), 'Sand Filter Basin' (a concrete basin with a sand filter), and 'Vegetative Filter Strip' (a grassy area with a concrete curb). The photographs are arranged in a 2x2 grid.

- ### Permitting & Maintenance
- Permit requirements, for a site of 1 acre or more, are:
 - Fee of \$250
 - Project Mitigation Scoring Sheet
 - Engineered Designs for BMPs
 - Signed Affidavit of Maintenance recorded at County Clerk Office
 - Maintenance requirements for all post construction BMPs include:
 - Site plan showing permanent BMP's and a maintenance plan, designating the responsible entity, to be filed in the real property records.
 - Maintenance is to be performed by an approved maintenance provider.
 - Partnering with SARA to provide low cost post construction maintenance certification
 - Annual maintenance reports
 - Permit is considered expired if maintenance reports are not submitted
 - A qualified engineer certification required for renewal of expired permit
 - May require addition of staff in two years to handle complaint inspections
 - If no action is taken to renew the permit, the permittee will be subject to fines and penalties under a Class C Misdemeanor (Comparable to a speeding ticket)

How It Will Help

The slide shows various BMPs and a map. It includes photographs of a detention basin, a sand filter basin, a vegetative filter strip, and a permeable pavement area. In the center, there is a map of a city area with a red line indicating a path or boundary. The map is surrounded by the photographs of the BMPs.

Special Thanks

Bexar County would like to thank the following members for their contribution

- Martha Mangum, Executive Director of Real Estate Council of San Antonio (RECSA)
- Diane Hoskins, Executive Director of Professional Engineers in Private Practice (PEPP)
- Coy Armstrong, P.E. with Bury, Inc.
- Chris Dice, P.E. with Cude Engineers
- Jeff McKinnie, P.E. with Cude Engineers
- Todd Compton with Yantis Company
- George Peck, P.E. with Civil Engineering Consultants
- Kara Heasley, P.E. with Jones | Carter
- Bob Liesman, P.E. with MBC Engineers, Inc.
- Becky Carroll, P.E. with Pape-Dawson Engineers, Inc.
- George Weron, P.E. with KFW Engineers & Surveying
- Craig Fletcher, P.E. with KFW Engineers & Surveying
- Rob Killen with Kaufman and Killen, Inc.