City of Santa Fe, New Mexico

StormWater

FY 2018 Annual Report – NMR040000

Reporting Period: July 1, 2017 - June 30, 2018

Per the requirements of our NPDES Permit, City of Santa Fe is posting this Draft FY 2018 Annual Report for Public review and comment. The comment period is 30 days, and the comment period will end on Sept, 26, 2018. If you have any comment please e-mail it to https://www.santafenm.gov/ms4_cooperative

Prepared by:

David N. Pike
Stormwater Inspection/Enforcement
Public Works Project Administrator

&

Michelle Gutierrez
Stormwater Inspections/Enforcement
Public Works Project Specialist
P.O. Box 909
Santa Fe, N.M. 87504
DATE: October 10, 2018

TO: Erik J. Litzenberg, City Manager

VIA: Regina Wheeler, Public Works Department Director
      John J. Romero, PE, Engineering Section Supervisor
      Leroy N. Pacheco, River, Watershed and Trails Section Supervisor

FROM: Melissa A. McDonald, River & Watershed Coordinator
      David N. Pike, Stormwater Project Administrator / Stormwater Inspector
      Michelle P. Gutierrez, Stormwater Office Project Specialist

PURPOSE: Annual Report for EPA Municipal Separate Storm Sewer System (MS4)

REQUESTED ACTION: City manager signature, upon review. Please go to page 6 of 6 of the MS4 Annual Report, sign and date in the appropriate signature box. Upon signature, please call Dave Pike at Ext 2134 or Michelle Gutierrez at Ext. 2133 for immediate pickup.

BACKGROUND: The Clean Water Act (1972) was established to restore and maintain the quality of the nation’s waterways and to ensure that rivers and streams were fishable, swimmable, and drinkable. Stormwater runoff is a leading source of water pollution. As stormwater runoff flows to the storm drain system it flows over land and impervious areas including sidewalks, streets, driveways, and parking lots picking up pollutants left on the ground such as oils, trash, and pet waste.

As part of the Clean Water Act, in 1990 the Environmental Protection Agency (EPA) created the Municipal Separate Storm Sewer System (MS4) Permit Program, under the National Pollutant Discharge Elimination System (NPDES) stormwater program. The MS4 program requires permittees to implement a stormwater management program as a means to control polluted stormwater discharges. The Phase I MS4 program affected urbanized areas, as defined by the US Census Bureau, with populations of 100,000 or greater. In 1999, EPA expanded the program to Phase II, which included urbanized areas with populations between 50,000 to 100,000. The current Phase II Permit was issued in 2007, and a new Permit is expected later this year. The Santa Fe urbanized area is covered under Phase II of the MS4 permit program and the permittees include the City of Santa Fe, Santa Fe County,
and NM Department of Transportation District 5. Under the MS4 Permit NMR040000, each permittee must develop and implement a comprehensive Stormwater Management Plan (SWMP). The SWWP currently consists of six program components known as minimum control measures (MCMs) that must be implemented.

- Public Education/Outreach
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management
- Pollution Prevention/Good Housekeeping

The purpose of the attached annual report is to document the status of the City’s Stormwater Management Program (SWMP). The report was compiled by David Pike, NPDES Compliance Officer, and represents a compilation of materials submitted by appropriate departments/divisions:

- Public Works Department, Stormwater Office, David Pike, NPDES Compliance Officer, and Michelle Gutierrez, Project Administrator Assistant
- Public Works, Melissa McDonald, River & Watershed Coordinator
- Land Use Department, RB Zaxus, former Drainage Engineer; and Joe Barella, acting Drainage Engineer; and Jon Grego, Land Use Compliance Officer
- Public Utilities Department, Alex Puglisi, Environmental Compliance Specialist

Supporting staff:

- Environmental Services Division, Lawrence Garcia, Solid Waste Project Administrator
- Environmental Services Division, Jerry Tapia, Collection Section Manager
- Wastewater Division, Raul Martinez, Engineer Tech Senior
- Water Division, Christine Chavez, Water Conservation Office Manager
- Streets and Drainage Maintenance Division Director Javier Martinez
- Parks and Recreation Department, Richard Thompson, Parks Department Director

All materials that support this report are available and posted at the following:

- Draft MS4 Report: https://www.santafenm.gov/ms4_cooperative
- NMED Stormwater Water Quality Report: https://www.santafenm.gov/ms4_cooperative
- Post Construction Low Impact Development Guidebook: https://www.santafenm.gov/ms4_cooperative
- GIS Mapped Storm Drain Inlet Maps: https://www.santafenm.gov/river_and_watershed
- Stormwater System Drainage Modeling: https://www.santafenm.gov/river_and_watershed
The draft annual report has been posted for public comment for at least 30 days on the city's website as per the permit requirements. Additional information such as notice of violation forms, correspondence and program information are available upon request.

**SUMMARY:** The Stormwater Office has been successful in working with other departments/divisions to implement the program and complies with the NMR040000 permit. Since being added to the River, Watershed and Trails Section, public education and outreach has increased significantly. The section participated in an EPA technical assistance program for long-term stormwater planning which focused on the creation of a post-construction BMP guidebook.

Concurrently, the City of Santa Fe has just completed a Stormwater Management Strategic Plan ([https://legistarwebproduction.s3.amazonaws.com/uploads/attachment/pdf/243147/2m_17.pdf](https://legistarwebproduction.s3.amazonaws.com/uploads/attachment/pdf/243147/2m_17.pdf)) that will meet our new MS4 permit expected out this year. Within the report key foundational steps were identified that will improve our compliance with the permit, specifically:

- An improved stormwater structure across the city by clarifying roles and responsibilities and creating standardized procedures for operation;
- Better collection of data to enrich our storm system mapping and analysis;
- Expansion of community education and outreach materials including our website
- Improved water quality sampling and testing

Thank you for your prompt attention.

Cc: Carol Johnson, Land Use Department Director
Shannon Jones, Public Utilities Department Director
John Munoz, Parks and Recreation Department Director
Shirlene Sitton, Environmental Services Division Director
Richard Thompson, Parks Department Director
Javier Martinez, Streets & Drainage Maintenance Division Director

Attachments: EPA MS4 Annual Report form for NMR040000
Annual Report Format

National Pollutant Discharge Elimination System Stormwater Program
MS4 Annual Report Format

Check box if you are submitting an individual Annual Report with one or more cooperative program elements. ☒

Check box if you are submitting an individual Annual Report with individual program elements only. ☐

Check box if this is a new name, address, etc. ☐

1. MS4(s) Information

City of Santa Fe

Name of MS4

David Pike Public Works Projects Administrat.[

Name of Contact Person (First) (Last) (Title)

505-955-2134 dpierce@santafem.gov

Telephone (including area code) E-mail

P.O. Box 909 200 Lincoln Avenue

Mailing Address

Santa Fe NM 87504

City State ZIP code

What size population does your MS4(s) serve? 83,000 NPDES number 40,000

What is the reporting period for this report? (mm/dd/yyyy) From July 1, 2017 to June 30, 2018

2. Water Quality Priorities

A. Does your MS4(s) discharge to waters listed as impaired on a state 303(d) list? ☒ Yes ☐ No

B. If yes, identify each impaired water, the impairment, whether a TMDL has been approved by EPA for each, and whether the TMDL assigns a wasteload allocation to your MS4(s). Use a new line for each impairment, and attach additional pages as necessary.

<table>
<thead>
<tr>
<th>Impaired Water</th>
<th>Impairment</th>
<th>Approved TMDL</th>
<th>TMDL assigns WLA to MS4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Fe River</td>
<td>E. coli, PCB's, Aluminum</td>
<td>☒ Yes</td>
<td>☐ Yes ☐ No</td>
</tr>
<tr>
<td>Santa Fe River Nutrients</td>
<td>Total Nitrogen and total Phos</td>
<td>☐ Yes ☐ No</td>
<td>☐ Yes ☐ No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
2. B. Continued

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<td></td>
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<td>Yes</td>
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<td>Yes</td>
<td>No</td>
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<td></td>
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<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

C. What specific sources contributing to the impairment(s) are you targeting in your stormwater program?

- Waste Water
- Over Flows (E. coli, Chlorine, Ammonia)
- Scoop the Poop Public Program
- Car Care Do-it-Yourselfers BMP's Program & Commercial Auto Industry BMP's Program

D. Do you discharge to any high-quality waters (e.g., Tier 2, Tier 3, outstanding natural resource waters, or other state or federal designation)?

   Yes  No

E. Are you implementing additional specific provisions to ensure their continued integrity?

   Yes  No

3. Public Education and Public Participation

A. Is your public education program targeting specific pollutants and sources of those pollutants?

   Yes  No

B. If yes, what are the specific sources and/or pollutants addressed by your public education program?

   Auto Industry, Food-Handling Facilities, IPM Program, Participation/Community Days, Construction Industry,
   The City of Santa Fe's Ordinance 2000-5 address's all pollutants except rain and snow melt discharges/"Only Rain in the

   C. Note specific successful outcome(s) (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications)
   fully or partially attributable to your public education program during this reporting period.

   Per the IPM ordinance the City of Santa Fe has removed all Toxicity Category 1 pesticide use from City of Santa Fe.
   City of Santa Fe's elimination of plastic bags,

   D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program?

   Yes  No

4. Construction

A. Do you have an ordinance or other regulatory mechanism stipulating:

   Erosion and sediment control requirements?
   Yes  No

   Other construction waste control requirements?
   Yes  No

   Requirement to submit construction plans for review?
   Yes  No

   MS4 enforcement authority?
   Yes  No

B. Do you have written procedures for:

   Reviewing construction plans?
   Yes  No

   Performing inspections?
   Yes  No

   Responding to violations?
   Yes  No

C. Identify the number of active construction sites ≥ 1 acre in operation in your jurisdiction at any time during the reporting period. 25

D. How many of the sites identified in 4.C did you inspect during this reporting period? 8

E. Describe, on average, the frequency with which your program conducts construction site inspections.

   Construction Site Inspections are performed after rain events >.25" or discharge violations that are reported or observed outside the site perimeter control BMP.
F. Do you prioritize certain construction sites for more frequent inspections?  
☐ Yes  ☐ No

If Yes, based on what criteria?  
Sites located adjacent to water ways and site's requiring more disturbance in acreage. Sites with more erosion/runoff characteristics.

G. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:

☐ Yes  Notice of violation  26  No Authority  ☐

☐ Yes  Administrative fines  0  No Authority  ☐

☐ Yes  Stop Work Orders  18  No Authority  ☐

☐ Yes  Civil penalties  1  No Authority  ☐

☐ Yes  Criminal actions  0  No Authority  ☐

☐ Yes  Administrative orders  1  No Authority  ☐

☐ Yes  Other

H. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions of active construction sites in your jurisdiction?  
☐ Yes  ☐ No

I. What are the 3 most common types of violations documented during this reporting period?

Lack of appropriate BMPs, Illicit Discharges, Illegal Dumping

J. How often do municipal employees receive training on the construction program?  
once a year

5. Illicit Discharge Elimination

A. Have you completed a map of all outfalls and receiving waters of your storm sewer system?  
☐ Yes  ☐ No

B. Have you completed a map of all storm drain pipes and other conveyances in the storm sewer system?  
☐ Yes  ☐ No

C. Identify the number of outfalls in your storm sewer system.  
318

D. Do you have documented procedures, including frequency, for screening outfalls?  
☐ Yes  ☐ No

E. Of the outfalls identified in 5.C, how many were screened for dry weather discharges during this reporting period?  
at least 10%

F. Of the outfalls identified in 5.C, how many have been screened for dry weather discharges at any time since you obtained MS4 permit coverage?  
25%

G. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type.

All outfalls in Santa Fe River are monitored for illicit discharges at least once a month. All others are screened randomly for illegal discharges.

H. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges?  
☐ Yes  ☐ No

I. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges?  
☐ Yes  ☐ No
J. During this reporting period, how many illicit discharges/illegal connections have you discovered? [2

K. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? [100%]

L. How often do municipal employees receive training on the illicit discharge program? [Once per year]

6. Stormwater Management for Municipal Operations
A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:
   - All public parks, ball fields, other recreational facilities and other open spaces [☐ Yes ☒ No]
   - All municipal construction activities, including those disturbing less than 1 acre [☐ Yes ☒ No]
   - All municipal turf grass/landscape management activities [☐ Yes ☒ No]
   - All municipal vehicle fueling, operation and maintenance activities [☒ Yes ☒ No]
   - All municipal maintenance yards [☐ Yes ☒ No]
   - All municipal waste handling and disposal areas [☒ Yes ☒ No]

   Other: Some Municipal Operations plans have been requested, ongoing discussions are taking place currently to develop & implement plans specific for Municipal Operations and to meet short & long range storm wat[ ]

B. Are stormwater inspections conducted at these facilities? [☒ Yes ☐ No]

C. If Yes, at what frequency are inspections conducted? [At least quarter] [ ]

D. List activities for which operating procedures or management practices specific to stormwater management have been developed (e.g., road repairs, catch basin cleaning).

   All work activities are performed with best management practices in mind to help keep in compliance with Storm Water Management

   E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection? [☒ Yes ☐ No]

   F. If Yes, which activities and/or facilities receive most frequent inspections?

Solid Waste pick up practices/equipment storage & vehicle maintenance, Streets & Drainage work activities, equipment storage vehicle maintenance are monitored and inspected most frequent.

G. Do all municipal employees and contractors overseeing planning and implementation of stormwater-related activities receive comprehensive training on stormwater management? [☒ Yes ☐ No]

H. If yes, do you also provide regular updates and refreshers? [☒ Yes ☐ No]

I. If so, how frequently and/or under what circumstances?

   once a year or more frequent for projects adjacent to water ways.

7. Long-term (Post-Construction) Stormwater Measures
A. Do you have an ordinance or other regulatory mechanism to require:
   - Site plan reviews for stormwater/water quality of all new and re-development projects? [☒ Yes ☐ No]
   - Long-term operation and maintenance of stormwater management controls? [☐ Yes ☒ No]
   - Retrofitting to incorporate long-term stormwater management controls? [☐ Yes ☒ No]

B. If you have retrofit requirements, what are the circumstances/criteria?

N/A

C. What are your criteria for determining which new/re-development stormwater plans you will review (e.g., all projects, projects disturbing greater than one acre, etc.)?

   All new/re-development plans get reviewed
D. Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development?  
☑ Yes  ☐ No

E. Do these performance or design standards require that pre-development hydrology be met for:
Flow volumes  
☑ Yes  ☐ No
Peak discharge rates  
☑ Yes  ☐ No
Discharge frequency  
☑ Yes  ☐ No
Flow duration  
☑ Yes  ☐ No

F. Please provide the URL/reference where all post-construction stormwater management standards can be found.
https://www.santafenm.gov/river and watershed  https://www.santafenm.gov/ms4 cooperative

G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection?  
25

H. How many of the plans identified in 7.G were approved?  
25

I. How many privately owned permanent stormwater management practices/facilities were inspected during the reporting period?  
5

J. How many of the practices/facilities identified in I were found to have inadequate maintenance?  
5

K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections?  
1-7 days for corrective action

L. Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities?  
☑ Yes  ☐ No

M. How many formal enforcement actions (i.e., more than a verbal or written warning) were taken for failure to adequately operate and/or maintain stormwater management practices?  
0

N. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?  
☐ Yes  ☑ No

O. Do all municipal departments and/or staff (as relevant) have access to this tracking system?  
☐ Yes  ☑ No

P. How often do municipal employees receive training on the post-construction program?  
in progress

8. Program Resources
A. What was the annual expenditure to implement MS4 permit requirements this reporting period?  
1,500,000.00

B. What is next year’s budget for implementing the requirements of your MS4 NPDES permit?  
1,500,000.00

C. This year what is/are your source(s) of funding for the stormwater program, and annual revenue (amount or percentage) derived from each?
Source: City of Santa Fe Public Utility, storm water fee  
Amount $  ☐  OR % 100

D. How many FTEs does your municipality devote to the stormwater program (specifically for implementing the stormwater program; not municipal employees with other primary responsibilities)?  
3

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E. Do you share program implementation responsibilities with any other entities?  ☑ Yes  ☐ No

<table>
<thead>
<tr>
<th>Entity</th>
<th>Activity/Task/Responsibility</th>
<th>Your Oversight/Accountability Mechanism</th>
</tr>
</thead>
<tbody>
<tr>
<td>NM DOT</td>
<td>BMP implementation, Water Quality</td>
<td>Oversight by each Entity</td>
</tr>
<tr>
<td>Santa Fe County</td>
<td>BMP implementation, Water Quality</td>
<td>Oversight by each Entity</td>
</tr>
</tbody>
</table>

9. Evaluating/Measuring Progress

A. What indicators do you use to evaluate the overall effectiveness of your stormwater management program, how long have you been tracking them, and at what frequency? These are not measurable goals for individual management practices or tasks, but large-scale or long-term metrics for the overall program, such as macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Began Tracking (year)</th>
<th>Frequency</th>
<th>Number of Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical, Chemical and Biological Parameters</td>
<td>2010-2017</td>
<td>Physical, Chemical and Biological Parameters</td>
<td>28</td>
</tr>
<tr>
<td>Physical, Chemical and Biological Parameters</td>
<td>2017</td>
<td>Monthly (June-September)</td>
<td>8</td>
</tr>
<tr>
<td>E. coli Source Study</td>
<td>2017</td>
<td>Not Yet Determined</td>
<td>Varied Location</td>
</tr>
</tbody>
</table>

B. What environmental quality trends have you documented over the duration of your stormwater program? Reports or summaries can be attached electronically, or provide the URL to where they may be found on the Web.

Impairments (Ecoli, PCBs, and Total Recoverable Aluminum) have remained constant in upper reach of SF River. Stormwater/natural erosion of soils are suspected causes of impairment for aluminum. Nutrients sources/contributions

10. Additional Information

Please attach any additional information on the performance of your MS4 program, including information required in Parts I.C, I.D, and III.B. If providing clarification to any of the questions above, please provide the question number (e.g., 2C) in your response.

Certification Statement and Signature

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.

☐ Yes  ☐ No

Federal regulations require this application to be signed as follows: For a municipal, State, Federal, or other public facility: by either a principal executive or ranking elected official.

Signature:  

Erik Litzenberg  

Name of Certifying Official, Title  

Date (mm/dd/yyyy): 10/17/2018

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