

City of Santa Fe, New Mexico

National Pollutant Discharge Elimination System

Storm Water Management



City of Santa Fe

MS4 Annual Report

Fiscal Year 2012-2013

TABLE OF CONTENTS

	Page
Executive Summary	3
MS4 Permittee Information	4
Minimum Control Measure 1 (Public Education & Outreach)	5
Public Education & Outreach (Goal/Task & Status)	6
Minimum Control Measure 2 (Public Participation & Involvement)	7
Public Participation & <i>Involvement</i> (Goal/Task & Status)	8
Minimum Control Measure 3 (Illicit Discharge Detection & Elimination)	9
Illicit Discharge Detection & Elimination (Goal/Task & Status)	10
Minimum Control Measure 4 (Construction Site Runoff Control)	11
Construction Site Runoff Control (Goal/Task & Status)	12
Minimum Control Measure 5 (Post-Construction Runoff Control)	13
Post-Construction Runoff Control (Goal/Task & Status)	14
Minimum Control Measure 6 (Pollution Prevention/Good Housekeeping)	15
Pollution Prevention/Good Housekeeping (Goal/Task & Status)	16



Executive Summary

The City of Santa Fe's Storm Water Management Plan (SWMP) outlines the City's program to comply with the Environmental Protection Agency's ("EPA") Phase II mandate to improve storm water quality in accordance with the Clean Water Act of 1972. This program will serve to develop, implement, and enforce a storm water management program designed to reduce the discharge of pollutants to the maximum extent possible. The City of Santa Fe believes that educating the community and developing a strong Storm Water Program is effective towards EPA's NPDES (National Pollutant Discharge Elimination System) small MS4 (small municipal sewer) Phase II compliance program. The City of Santa Fe also encourages the latest technologies such as Low Impact Development Projects, Green Infrastructure Projects, and Permeable, Pavement Projects which allow for greater infiltration and will sharply limit runoff volume. The City's receiving water is the Santa Fe River. A TMDL (total maximum daily load) for stream-bottom deposits is in place. The EPA has identified six minimum control measures that must be specifically addressed within the plan. The City must show measurable goals and improvement in six minimum areas. The six minimum areas are listed below.

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Storm Water Runoff Control
5. Post-Construction Runoff control
6. Pollution Prevention/Good Housekeeping

The Best Management Practices ("BMP's") listed here are minimum goals based on anticipated funding levels derived from a Storm Water Impact Fee. If additional funds should become available through federal or state grants, loans approved by the Managing Body, or in-kind services, minimum control measures could be increased. Any additional efforts made by any department with the ultimate goal of improving the quality of storm water will be documented and reported to the designated Storm Water Manager.

Conclusion

The City of Santa Fe's Storm Water Management Plan outlines the six minimum control measures that are expected to result in significant reduction in pollutants discharged by the City of Santa Fe.

The Storm Water Management Plan measures and controls are consistent with the total maximum daily loads established for the Santa Fe River by incorporating the best available measures for control of sediments.

Results of this report indicate that the City continues to meet and or exceed established goals. Based on our available resources the City of Santa Fe continues to reduce pollutants to the maximum extent possible.



PERMITTEE INFORMATION

Permit Number: NM (NM0022292)

Permittee: **City of Santa Fe**
Mailing Address: **P.O. Box 909**
City, State and Zip Code: **Santa Fe, NM 87504-0909**
Phone Number: **(505) 955-2133**

Have any areas been added to the MS4 due to annexation or other legal means? **yes**

B. REPORTING PERIOD July 1, 2012 to June 30, 2013

C. PROGRAM AREAS (AS ATTACHED)

D. CERTIFICATION

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



Brian K. Snyder
City Manager
City of Santa Fe, NM

03/10/2015

Date



Minimum Control Measure 1 – Public Education and Outreach

Assessment of Appropriateness of Identified Best Management Practices

The BMPs for Public Education and Outreach identified in the City's Storm Water Management Plan, due to the EPA by October 2014, are still considered to be appropriate. The City has continued to address and implement many BMPs in this area.

Progress Towards Reducing Pollutants to the Maximum Extent Practicable

At this point, only a qualitative conclusion can be drawn. The City has reached a certain segment of the population, specific groups of potential polluters, and internal city staff with the storm water message, the quality of stormwater runoff should have improved by some amount. The ongoing stormwater program has continued to raise awareness of the importance of clean runoff to employees, the Governing Body, management and a portion of public, as well as certain businesses.

Status of Achieving Measurable Goals

Please refer to the following page, "Goal / Task" and "Status"

Results of Information (Data) Collected and Analyzed, If Any

There has been an increase in the number of Public appearances (Home Owners Associations, Home Builders Association, Restaurants, Auto industry, Commercial Businesses, etc.), *bilingual* television commercials run to include staffing of storm water information booths.

Storm Water Activities to be Undertaken in Next Reporting period

- Continued participation in community events to provide information and other materials
- Continued outreach targeting restaurant owners and automotive repair shops implemented
- Creation of additional storm water informational videos, power point presentations and commercial ads to include bilingual spots
- Installation of signage to be placed on major arroyo/roadway crossings identifying waterways

Proposed Changes to the Storm Water Management Program

None at this time.

Description Of Additional BMPs That May Be Necessary



PUBLIC OUTREACH/TRAINING



PUBLIC OUTREACH/COMMUNITY DAYS



MINIMUM CONTROL MEASURE 1

Public Education & Outreach

Goal/Task	Status
Annual/Storm Water funding was successful by in-kind services & a GO Bond.	Funding was solicited this reporting period- funding was successful through a General Obligation Bond. The storm water program continues to be funded by a dedicated monthly storm water utility fee assessed to homeowners and businesses.
Annual/an Educational Storm Water brochure and survey will be sent to the public in the next reporting period.	A draft public survey developed for the future 2014 reporting period to determine the level of knowledge the public has regarding the City's Storm Water Program.
7,884 per year/Multimedia commercials	A 30 second PSA Storm Water commercial ad is being aired with Com Cast Cable TV and is continually aired which enables the reporting of illicit discharges by the public. 7,884 commercials were developed and aired this reporting period.
500 IPM brochures were given out/Proper use of pesticide and lawn chemical flyers distributed and posted at vendor locations.	An IPM (Integrated Pest Management) brochure has been created and is currently distributed at local business for distribution at point of sale of related items. A minimum of 500 brochures were distributed.
100% of reported illegal dumping areas documented/ posted sign locations are monitored and maintained.	100% of reported areas have been documented. The City's Storm Water staff continues to maintain & post signage in areas of concern reported by City staff and the public. Over 100 signs have been posted.
Annual/Participate in community events and provide the City's Storm Water program information to the public.	The City's Storm Water staff mans a booth at the annual Community Days Event. (May, 11 2013) This year approx. 1500 auto trash bags were distributed which included a Storm Water brochure, an IPM brochure and a variety of giveaways displaying our "Only Rain in the Drain" logo.
500 per year/Document the number of educational brochures given away to targeted industries and at community events.	Storm Water Management staff have created two types of auto brochures (Commercial & Do-It-Yourselfers) that are being placed at point of sale of auto fluids and repairs. A restaurant brochure has also been created and is being distributed to restaurants on a continual basis. Approximately 500 brochures have been issued.



Minimum Control Measure 2 – Public Participation / Involvement

Assessment of Appropriateness of Identified Best Management Practices

The BMPs for Public Participation / Involvement identified in the City's Storm Water Management Plan, due to the EPA by October 2014, are still considered to be appropriate. The City has addressed, or begun to address and implement, some BMPs in this area.

Progress Towards Reducing Pollutants to the Maximum Extent Practicable

At this point, only a qualitative conclusion can be drawn to the extent that the Adopt-A-River Program, Adopt-A-Median program are continuing, In addition an Adopt-An-Arroyo program has been created through the City's Storm Water Management office for the Arroyo Chamisos, a main tributary of stormwater runoff to the Santa Fe River. The quality of storm water runoff has improved by some amount due to removal of litter and potential pollutants from the Santa Fe River and the Arroyo Chamisos. Additional arroyos are maintained by the Youth group programs, and by the ongoing street medium maintenance volunteers.

Status of Achieving Measurable Goals Identified in the Storm Water Management Plan

Please refer to the following page, "Goal / Task" and "Status"

Results of Information (Data) Collected and Analyzed, If Any

There has been a continued citizen cleanup effort with Adopt-A-River, Adopt-An-Arroyo, Keep Santa Fe Beautiful and other projects.

Storm Water Activities to be Undertaken in Next Reporting period

- Continue to work with citizen watch group(s) to look out for and report illicit discharges
- Continue to use various youth groups and developers for the inlet marker program

Proposed Changes to the Storm Water Management Program

- Hazardous waste receiving and recycling activities are managed year-round by City staff. The public is invited to participate during the city's Hazardous Household Waste drop off day.

Description Of Additional BMPs That May Be Necessary (and Schedule)

None at this time.

Youth Works Activities



MINIMUM CONTROL MEASURE 2

Public Participation / Involvement

Goal / Task	Status
<p>Annual/ Storm Water funding was successful through in-kind services and a General Obligation Bond.</p>	<p>Funding was solicited this reporting period- funding was voted by the general public was successful via in-kind services and a General Obligation Bond. The Storm Water Program continues to be funded by a dedicated monthly storm water utility fee assessed to homeowners and businesses.</p>
<p>Annual/ Continue to clean and identify types of floatables/pollution from waterways (arroyos, Santa Fe River).</p>	<p>The Storm Water Office enters an annual contract with Santa Fe Youth Works group to clean the City's arroyo system. The city maintains approximately 77.34 miles of arroyos within the City limits. A total of 56.33 tons of green waste was documented.</p>
<p>Annual/ Document the number of participants volunteering for river and arroyo clean ups from the previous year.</p>	<p>The City of Santa Fe and four Home Owner Associations actively clean arroyos/drainages at least twice a year. A total of 40 participants volunteered for cleanup of the Santa Fe River and arroyos this reporting period.</p>
<p>Annual/ Document new and replacement drains markers</p>	<p>The City has approx. 2200 storm drain inlets. (51% or 1240) storm drain markers have been placed and approx...(10% or 124) have been replaced because of missing or damaged markers. The city will continue upon funding to place additional markers as required. These numbers include the latest annexation areas. The goal is to set 500 new markers for 2013-2014.</p>
<p>Annual/100% of city refuse residents have been provided Non-Recyclable covered waste storage bins and containers.</p>	<p>All 100% of city refuse residents have received covered waste containers as the City's Solid Waste Division has moved into a side container load truck. By providing residents with covered waste containers this effort has reduced pollution in the City's storm system significantly.</p>
<p>Annual/Document all complaints resolved as a result of hotline. All hotline issues resolved.</p>	<p>All hotline calls received are entered into the database detailing the incident and the actions taken. All hotline complaints were resolved.</p>



Minimum Control Measure 3 – Illicit Discharge Detection & Elimination

Assessment of Appropriateness of Identified Best Management Practices

The BMPs for Illicit Discharge Detection and Elimination identified in the City's Storm Water Management Plan, due to the EPA by October 2014, are still considered to be appropriate. The City has addressed, or begun to address and implement, many BMPs in this area.

Progress Towards Reducing Pollutants to the Maximum Extent Practicable

At this point, only a qualitative conclusion can be drawn. Since many businesses and homeowners have been provided educational materials (brochures) areas of illegal dumping, the quality of storm water runoff should have improved by some amount. Other city inspection areas such as (Planning & Land Use Grading & Drainage, Water Conservation Office, Parks & Recreation and others have continued to refer possible illicit discharges to the Storm Water Inspector whenever they are encountered as part of their routine inspections.

Status of Achieving Measurable Goals

Please refer to the following page, "Goal / Task" and "Status"

Results of Information

There has been a decrease in the number of illicit discharge reports, complaints, and corrective actions taken.

Storm Water Activities to be Undertaken in Next Reporting period

- All of discovered illicit sources will be documented and disconnected.
- All reported dry weather flows will be documented and reported.
- The number of citizen complaints of illicit dumping will continue to be documented, as well as the results of any action taken by the City

Proposed Changes to the Storm Water Management Program

None at this time.

Description Of Additional BMPs That May Be Necessary (and Schedule)

None at this time.

Baca Street – Illicit Discharge
Connection



MINIMUM CONTROL MEASURE 3

Illicit Discharge Detection & Elimination

Goal / Task	Status
Annual / Storm Water funding	Storm Water funding for Illicit discharge and elimination was successful and a General Obligation Bond continues to be funded by a dedicated monthly storm water utility fee assessed to homeowners and businesses.
Annual / Expand current Storm Drain System Map to include various components of the system to include: catch basins, pipes, culverts, etc.	Smith Engineering completed mapping of all existing outfalls, catch basins, culverts, manholes etc. however Phase II of the mapping of pipe/flows is still outstanding and will take place pending future funding. Prior to any annexations.
Annual / Document discovered illicit sources disconnected.	Illicit discharge connections were documented and disconnected. A total of 5 Illicit connections were addressed per this reporting period.
Annual / Outfall inspection program ongoing/ continue to document maintenance issues and follow up on dry weather flows found.	A total of 130 outfalls have been recorded and inspected. No dry weather flows were documented.
Annual / Document the number of citizen complaints of illicit dumping into storm drains and the results of actions taken.	While continuing to share the storm water message with all residents and businesses we are receiving less citizen complaints. We are seeing a decline in the number of overall reported complaints per previous reporting periods. All complaints were documented and resolved. A total of 11 were addressed per this measure.
Annual/ Document continue commercial business inspection program; follow up on discoveries and record actions taken.	A total of 38 commercial business inspections took place. All inspections and corrective actions have been documented.



Minimum Control Measure 4 – Construction Site Runoff Control

Assessment of Appropriateness of Identified Best Management Practices

The BMPs for Construction Site Runoff Control identified in the City's Storm Water Management Plan, due to the EPA by October 2014, are still considered to be appropriate. The City has addressed, or begun to address and implement, many BMPs in this area.

Progress Towards Reducing Pollutants to the Maximum Extent Practicable

At this point, only a qualitative conclusion can be drawn. The City has and enforces a comprehensive Terrain and Storm Water Management ordinance, therefore the quality of storm water runoff has improved by some amount due to construction site inspections and ordinance enforcements. The enforcement of these ordinances helps prevent pollutants from leaving construction sites. A construction-specific brochure and handout package was developed, for distribution to contractors by Storm Water Staff and Planning and Land Use Staff.

Status of Achieving Measurable Goals Identified

Please refer to the following page, "Goal / Task" and "Status"

Results of Information (Data) Collected and Analyzed, If Any

There was an increase in awareness of construction site runoff control due to maintaining /site inspections and outreach.

Storm Water Activities to be Undertaken in Next Reporting period

- Continue to document the number of inadequate site plans submitted to Planning and Land Use
- Continue to document the number of stop-work orders given due to construction site runoff control violations
- Continue to document the number of BMP informational brochures given to contractors
- Continue to document the number of enforcement actions taken

Proposed Changes to the Storm Water Management Program

None at this time.

Description Of Additional BMPs That May Be Necessary (and Schedule)

None at this time.



BMP Construction Entrance



BMP - Inlet Basin Protection



MINIMUM CONTROL MEASURE 4

Construction Site Runoff Control

Goal / Task	Status
Annual/The storm water program is funded by a dedicated monthly storm water utility fee assessed to homeowners and businesses.	For construction site runoff control. The storm water program continues to be funded by a dedicated monthly storm water utility fee assessed to homeowners and businesses.
Annual/List the number of stop work orders given.	17 stop work orders were documented and issued.
Annual/Document the number of enforcement actions/inadequate site plans reported by inspectors.	Grading & Drainage inspections reported for this period are as follows: 295 Approved with exception, 391 Approved, 50 Cancelled, and 135 Disapproved.
Annual/Document the number of BMP information brochures given to contractors.	A construction-specific brochure and a BMP (Best Management Practice) flyer developed by the Storm Water Staff for distribution to developers and contractors. A total of 250 brochures/flyers were issued to the City's Permit and Development Division and an additional 98 were distributed to contractors by the Storm Water inspector in the field. A total of 348 educational/BMP Brochures were issued this reporting period. A
Ordinance # 2005-3 Storm Water Illicit discharge control in place	Construction site activities that have disturbed less than one acre of land have shown a reduction in pollutant discharges as a result of the enforcement of City of Santa Fe's 2005-3 Storm Water Illicit discharge control ordinance.
Annual/Document the number of enforcement actions taken which include Storm Water Pollution Prevention Plan (SWPPP) and non-SWPPP violations.	During this reporting period a total of 110 enforcement actions were documented and resolved.



Minimum Control Measure 5 – Post-Construction Runoff Control

Assessment of Appropriateness of Identified Best Management Practices

The BMPs for Post-Construction Runoff Control identified in the City's Storm Water Management Plan, due to the EPA by October 2014, are still considered to be appropriate. The City continues to implement BMPs in this area.

Progress Towards Reducing Pollutants to the Maximum Extent Practicable

Design was completed for a small portion of the Santa Fe River, near Frenchy's Field, for a collaborative improvement project to be done by the City and area YCC crews, e.g., for the removal of non-native vegetation. The City continues to develop the rail yard property which includes a water harvesting component. The City of Santa Fe's new convention center also has incorporated a water harvesting component to its design. In addition the City enforces a comprehensive Terrain and Storm Water Management ordinance and combined should have improved the quality of storm water runoff.

Status of Achieving Measurable Goals

Please refer to the following page, "Goal / Task" and "Status"

Results of Information (Data) Collected and Analyzed, If Any

no data collected at this time

Storm Water Activities to be Undertaken in Next Reporting period

- Porous pavement monitoring will continue.

Proposed Changes to the Storm Water Management Program

None at this time.

Description Of Additional BMPs That May Be Necessary (and Schedule)

None at this time.



Porous Concrete Permanent BMP



Open Channel Outfall – BMP – Infiltration Garden



MINIMUM CONTROL MEASURE 5

Post-Construction Runoff Control

Goal/Task	Status
<p>Annual/Storm Water funding was successful through in-kind services & a voter's General Obligation Bond.</p>	<p>Then Storm Water program continues to fund Post-Construction Run-off control. The storm water program continues to be funded by a dedicated monthly storm water utility fee assessed to homeowners and businesses.</p>
<p>Annual/Porous pavement follow-up studies.</p>	<p>The City's Storm Water office continues to monitor pervious City approved projects for effectiveness to assure that the level of pollution runoff is being reduced to meet EPA's NPDES program. Studies reveal or indicate that the conditions of approved pervious projects continue to function as designed and help in reducing overall runoff in the area.</p>
<p>Annual/Document the number of river/arroyo miles modified and vegetated.</p>	<p>The City continues to maintain 77.34 miles of arroyos however no modifications have occurred in the arroyos for this reporting period.</p>
<p>Annual/Document the amount of acreage preserved as buffers.</p>	<p>A total of 3,969.84 acres have been designated as City Open Space.</p>



Minimum Control Measure 6 – Pollution Prevention / Good Housekeeping

Assessment of Appropriateness of Identified Best Management Practices

The BMPs for Pollution Prevention / Good Housekeeping identified in the City's Storm Water Management Plan, due to the EPA by October 2014, are still considered to be appropriate. The City continues to implement BMPs in this area.

Progress Towards Reducing Pollutants to the Maximum Extent Practicable

At this point, only a qualitative conclusion can be drawn. To the extent that on-going street sweeping, inlet vacuuming, utilization of "snout" drop inlets and/or Storm-ceptor inlets in some new construction, and an active IPM Program, and removal of debris and potential pollutants from city arroyos and channels, the quality of storm water runoff continues to improve.

Status of Achieving Measurable Goals Identified

Please refer to the following page, "Goal / Task" and "Status"

Results of Information (Data) Collected and Analyzed, If Any

Outfall cleaning, inlet cleaning, trash pickup, recycling, and IPM training have all increased.

Storm Water Activities to be Undertaken in Next Reporting period

- Continuing the monitoring of municipal operations and making recommendations for improvements
- Continuing to document the number of IPM brochures distributed to the public
- Continue training provided to city employees in IPM, by Parks staff
- Continue to document outfall cleaning, inlet cleaning, and channel trash pickup
- Continue to document street sweeping accomplishments
- Compile the number of preventative maintenance procedures performed on city owned vehicles
- Continue to train City employees about BMP's involving their work activities

Proposed Changes to the Storm Water Management Program

None at this time.

Description Of Additional BMPs That May Be Necessary (and Schedule)

None at this time.



Streets and Drainage/Inlet
Maintenance



MINIMUM CONTROL MEASURE 6

Pollution Prevention / Good Housekeeping

Goal/Task	Status
Annual/ Storm Water funding was successful through in-kind services and a voter General Obligation Bond.	The storm water program continues to be funded by a dedicated monthly storm water utility fee assessed to homeowners and businesses.
Annual/Parks & Trails pesticide program ongoing	IPM office initiated a pesticides program to limit use of hazardous chemicals City of Santa Fe uses no herbicides or pesticides containing hazardous chemicals.
Annual/Document the number of IPM brochures distributed to citizens.	Over 2400 IPM brochures were distributed to citizens during this reporting period via different sources such as earth day, community days, local nurseries etc.
Annual/Document the number of municipal employees trained in BMP awareness.	The City's Storm Water Office continues to train employees in Storm Water Best Management Practice's (BMP's) specific to daily tasks within their respective departments. During this reporting period a total of 160 employees were trained. The following municipal departments include Parks & Recreation, Solid Waste, Streets & Drainage and the City's Water Department.
Annual/List the number of outfalls cleaned and the amount of trash removed.	We estimate 50% of all outfalls were inspected, prioritized and maintained. A total of 4000 tons of materials and trash were removed.
Annual/Document the number of miles of streets cleaned and the amount of trash removed from streets.	Approximately 900 lane miles have been cleaned this reporting period. Arterial street cleaning takes place approximately 6 times a year, The amount removed from the storm sewer infrastructure is approximately 2500 tons.
Annual/List the number of preventative maintenance procedures performed on city owned vehicles.	The estimated number of preventative work orders that Fleet Management Handled this reporting period were 1,750.

