MS4 STORM WATER PROGRAM

November 2007

Information on the Permittee:

Name of the Permittee: City of Blue Springs, Missouri
Type of Entity: City - Municipality
Total Area (acres): 22.1 sq. miles = 14,144 acres
Mailing Address: 903 W. Main Street, Blue Springs, MO 64015
Primary Contact: Oliver DeGrate
Phone Number: (816) 228-0121
Secondary Contact: Cesar A. Yanes
Phone Number: (816) 228-0121

Information on the Municipal Separate Storm Sewer System:

MS4 System Location: Blue Springs
Name of Organization: City of Blue Springs
County Permitee Resides: Jackson County
There are major receiving waters within the permitted area include:
Sni-Bar and Little Blue

The receiving waters are on the latest CWA's list of impaired waters: N/A
Received certification that their SWMP complies with the requirements of Part 3.1: N/A

Information on Adjacent Waterways:

The Permittee is within 100 feet of: Burr Oak Creek and Blue Branch Tributary
The Permittee is not within 100 feet of waters classified as major reservoirs:

None of the Permittee's area is defined as wetland.
The Permittee has received a CWA, Section 404 permit from the US Army Corps of Engineers: N/A

Stormwater from Blue Springs does not discharge to a sinkhole.

Information on Critical Areas:

There are threatened or endangered species in the area: See Page 2
The Permittee has met eligibility criteria for protection of threatened or endangered species.

There are critical habitats in the area: See Page 2
The Permittee has met eligibility criteria for protection of critical habitats.

The historic properties in the area: See Page 2
The Permittee has met eligibility criteria for protection of historic properties.

Endangered Species:

County	Species	Status	Habitat
Jackson	Bald Eagle (Haliaeetus Leucocephalus)	Threatened	
Jackson	Pallid Sturgeon (Scaphirhynchus Albus)	Endangered	Mississippi and Missouri Rivers

Historic Properties:

Name	Address	Owner	Year Added
German Evangelical Pasters' Home Historic District	1808-1812 W. Walnut and 300-311 19th Terrace, Blue Spring	Private Local Gov't	1988

MCM #1: Public Education and Outreach on Stormwater Impacts

4.2.1.1 Permit Requirements

Blue Springs plans to continue a public education program by distributing educational materials to the community and conducting outreach activities. The focus of these efforts will be to educate the public with activities discussing the impact of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

4.2.1.2 Decision Process

Blue Springs developed their stormwater public education and outreach program in cooperation with other jurisdictions in the region. The target pollutants were identified and prioritized. The actions that impact the target pollutants were identified. The public education program was designed to impact the actions identified.

The following is a prioritized list of the leading pollutants, experienced in the permitted area, that are carried by stormwater runoff into water bodies. (1 = having most impact and 10 = having least impact)

1	Suspended Solids
10	Nutrients
5	Pesticides
3	Metals
10	Bacteria
10	Oxygen-Depleting Substances (BOD & other organics)
5	Oil and Grease
5	Salinity (Salt)
5	Priority Toxic Organic Chemicals (Household Hazardous Waste Pesticide/Herbicides)
5	Habitat Alterations
2	Floatables
10	Temperature

4.2.1.2.1 Inform Public on Steps

Blue Springs plans to inform individuals and households in the community about the steps they can take to reduce stormwater pollution with the following programs:

	Year 1	Year 2	Year 3	Year 4	Year 5
Educational Materials:					
Post Information on Website	X	X	X	X	X
Display Posters on Public Transportation	X	X	X	X	X
Maintain a Library of Stormwater Educational Materials	X	X	X	X	X
Distribute Brochures:			X		
Lawn and Garden Activities	X	X	X	X	X
Hazardous Waste Disposal	X	X	X	X	X
Pet Waste Management	X	X	X	X	X
Trash Management	X	X	X		
Vehicle Maintenance and Washing	X	X	X	X	X
Illicit Discharges	X	X	X	X	X

*The topics for the brochures will be dependent on the topics in Mid-America Regional Council's (MARC) seasonal campaign for public educational. Additional topics will be included in the program, depending on the immediate needs of the surrounding communities. Detailed information about each seasonal campaign will be included in Blue Springs's annual report.

	Year 1	Year 2	Year 3	Year 4	Year 5
Public Awareness:					
Post Storm Water Quality Signs in Public Buildings	X	X	X	X	X
Issue Press Release Regarding Local Storm Water Issues	X	X	X	X	X
Show Storm Water Info on Local TV Station	X	X	X	X	X
Publish Articles in Local Newspaper	X	X	X	X	X
Publish Articles in Local Magazine	X	X	X	X	X
Show Public Service Announcement on Local TV Station	X	X	X	X	X
Run Public Service Announcement on Local Radio Stations	X	X	X	X	X
Present Stormwater Program in Local Schools	X	X	X	X	X

4.2.1.2.2 How to Become Involved

Blue Springs plans to inform individuals and groups on how to become involved in the stormwater program by providing those instructions in all materials distributed to the public. This is described in more detail in 4.2.2 Public Involvement/Participation.

4.2.1.2.3 Target Audiences

During the development of the education program, Blue Springs identified the sources of stormwater pollutants that needed to be reduced to improve overall water quality. The target audiences were selected because changing their

behavior would have a significant stormwater quality impact on the target pollutants. The target audiences for the public education program are:

1. Citizens (Homeowners)
2. Developers and Home Builders
3. Business Owners
4. Elected Officials
5. City Staff

4.2.1.2.4 Target Pollutant Sources

The target pollutant sources having a major impact on stormwater quality were identified. The following is a list of these sources:

The following is a list of potential sources of pollutants that are experienced in the permitted area. (1 = Major impact, 2 = Minor impact, 3 = Not an impact)

2	Construction activities (sediment, construction chemicals and debris, solid and sanitary wastes)
2	Over application of fertilizer, herbicides, pesticides
2	Improper disposal of paint and household hazardous chemicals
2	Pet waste contamination
2	Improper disposal of waste oil, grease, and gasoline disposal
2	Trash, debris, and illegal dumping
2	Detergents washed into drains
2	Snow removal (salt, sand and snow disposal)
2	Sanitary sewer overflows
2	Infiltration from cracked sanitary sewers
3	Failing septic systems
3	Sewer service connections to storm drainage system
2	Foundation drains connected to storm drainage system
2	Downspouts connected to storm drainage system
3	Lake or water body used for motor boating
2	Spills from roadway accidents or fires
2	Connected impervious areas covering large acreages (such as malls,
2	institutions with large parking areas)
2	Stream bank erosion
3	Waste transfer station

4.2.1.2.5 Outreach Strategy & Partnerships

Blue Springs's outreach strategy is to implement a variety of methods to reach a number of different target audiences multiple times. To change behavior,

repetition is important. The mechanisms are described in 4.2.1.2.1 of this permit application.

The strategy is to partner with other governmental and non-governmental entities to execute the public outreach strategy. The idea is to share information and resources so duplication does not occur. The following entities will be assisting with the effort:

1. Other Communities in the Region
2. Schools
3. Local Community Groups
4. Regional Planning Organization (MARC)
5. Homeowner Associations

The number of people targeted to be reached by the public education and outreach strategy is 5,000 per year.

4.2.1.2.6 Person Responsible

The person responsible for overall management and implementation of the permittee's stormwater public education and outreach program is the **PUBLIC WORKS DIRECTOR**. Others may be involved in the execution of each of the individual activities in the programs.

4.2.1.2.7 Measurable Goals Selection

Blue Springs selected the measurable goals for each of the BMPs after reviewing EPA & ASCE research on the effectiveness of certain BMPs. The BMPs selected were chosen because of the evidence that they will have a positive impact the target pollutants identified as a concern for Blue Springs. The public education and outreach BMPs were also selected because many have been effective methods of communicating with the public for our community. The implementation of BMPs selected will determine the success of the measure on water quality.

MCM #2: Public Involvement and Participation

4.2.2.1 Permit Requirements

Blue Springs has and will comply with State and Local public notice requirements when implementing the public involvement and participation program.

4.2.2.2 Decision Process

The following is the documentation for Blue Springs's decision process and rationale statement for the development of a stormwater public involvement and participation program. It documents the overall program and the individual BMPs, measurable goals, and responsible party for the program.

4.2.2.2.1 Involving the Public in Developing the Submittal

Blue Springs is taking into consideration public comments in the development and submittal of the application and stormwater management program as follows:

1. Held a Public Hearing
2. Posted Public Meeting Announcements

4.2.2.2.2 Involving the Public in Program Implementation

Blue Springs plans to actively involve the public in the continued revision of the stormwater program through a number of different methods selected because they are existing effective methods used by Blue Springs or because of EPA guidance documents that list these BMPs as effective public involvement methods.

4.2.2.2.3 Target Audiences to Involve in Program

The target audiences for the permittee's public involvement program are:
1. Citizens (Homeowners)
2. Mass Media
3. Local Elected Officials
4. Youth

4.2.2.2.4 Public Involvement Activities

Blue Springs plans will involve the public through the activities described below:

	Year 1	Year 2	Year 3	Year 4	Year 5
Conduct Attitude Survey	X	X	X	X	X
Establish Community Hotline	X	X	X	X	X
Hold Public Meetings	X	X	X	X	X
Promote Storm Drain Stenciling Program	X	X	X	X	X

4.2.2.2.5 Person Responsible

The person responsible for the overall management and implementation of the permittee's stormwater public involvement/participation program is the **PUBLIC WORKS DIRECTOR**. Others will be involved in the execution of each of the individual activities in the programs.

4.2.2.2.6 Goal Selected

Blue Springs selected the measurable goals for each of the BMPs after reviewing EPA & ASCE research on the effectiveness of certain BMPs. The BMPs selected were chosen because of the evidence that they will have a positive impact the target pollutants identified as a concern for Blue Springs. Some of the public involvement methods selected were also chosen because they have been used effectively by Blue Springs in the past. The implementation of BMPs selected will determine the success of the measure on water quality.

MCM #3: Illicit Discharge Detection and Elimination

4.2.3.1 Permit Requirement.

4.2.3.1.1 Overview

Blue Springs will develop, implement and enforce a program to detect and eliminate illicit discharges (as defined in 10 CSR 20-6.200) into their small MS4.

4.2.3.1.2 Map

Blue Springs will develop a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls.

The map will be developed using:

	Year 1	Year 2	Year 3	Year 4	Year 5
Storm Sewer Mapping	X	X	X	X	X
Aerial Photography	X	X	X	X	X
Sewer Maintenance Records	X	X	X	X	X
Public Complaints	X	X	X	X	X

4.2.3.1.3 Enforcement

Blue Springs will effectively prohibit non-stormwater discharges into the stormwater system of Blue Springs's stormwater system via the following ordinances and regulations. Each ordinance/regulation is enforceable by Blue Springs with appropriate procedures and consequential actions.

4.2.3.1.4 Methods to Detect

Blue Springs will implement and maintain a plan using the following methods to detect and address non-stormwater discharges, including illegal dumping to the stormwater system:

	Year 1	Year 2	Year 3	Year 4	Year 5
Closed Circuit Television	X	X	X	X	X
Visual Inspection	X	X	X	X	X
Monitoring Activities	X	X	X	X	X
Public Watch Programs	X	X	X	X	X

4.2.3.1.5 Informing the Public

Blue Springs will inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste using the following methods:

	Year 1	Year 2	Year 3	Year 4	Year 5
Educational Programs:					
Procedural Training for City Staff	X	X	X	X	X
Distribute Literature	X	X	X	X	X
Recycling Program for Household Hazardous Waste	X	X	X	X	X

	Year 1	Year 2	Year 3	Year 4	Year 5
Volunteer Programs:					
Storm Drain Stenciling	X	X	X	X	X
Household Hazardous Waste Collection	X	X	X	X	X
Illegal Dumping Hotline	X	X	X	X	X

4.2.3.1.6 Not Significant Contributors

Blue Springs has not identified any of the following categories of non-stormwater discharges or flows (i.e. illicit discharges) as significant contributors of pollutants to their small MS4: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration (as defined in 10 CSR 20-6.200), uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, springs, water from crawl space pumps, footing drains, lawn watering, flows from riparian habitats and wetlands, and street wash water (discharges or flows from fire fighting activities are excluded from the effective prohibition against non-stormwater and will only be addressed where they are identified as significant sources of pollutants to waters of the State.)

4.2.3.1.7 Occasional Incidental Non-Stormwater Discharges

Blue Springs's illicit discharge ordinance does not include a list of other similar occasional incidental non-stormwater discharges (e.g. non-commercial or charity car washes, etc.) that will not be addressed as illicit discharges because they are not reasonably significant sources of pollutants to the MS4. Should these occasional or incidental non-stormwater discharges be identified in the future, those entities responsible for discharging will be prohibited or conditions placed on them so as to minimize their discharge of pollutants.

4.2.3.2 Decision Process

Blue Springs has documented its decision process for the development of a stormwater illicit discharge detection and elimination program. Blue Springs's rationale statement addresses both its overall illicit discharge detection and elimination program and the individual BMPs, measurable goals, and responsible persons for their program.

4.2.3.2.1 Sources for Mapping

Blue Springs will develop a storm sewer map showing the location of all outfalls and the names and location of all receiving waters. Blue Springs used the following sources to compile the maps:

1. Storm Sewer Mapping
2. Aerial Photography
3. Sewer maintenance Records
4. Public Complaints

Once the map is established, Blue Springs will use proposed building plans to locate new outfalls and update the maps.

4.2.3.2.2 Regulatory Mechanism

Blue Springs will use the following mechanism to effectively prohibit illicit discharges to the MS4:

1. Inspection

This mechanism was selected because ordinances are commonly used by Blue Springs to establish laws and set forth the enforcement mechanisms. The ordinance establishes legal authority: to regulate the contribution of pollutants to the municipal separate storm sewer system (MS4) of stormwater discharges by any use; to prohibit illicit connections and discharges to the MS4; and to establish legal authority to carry out all inspections, surveillance and monitoring procedures necessary to ensure compliance.

Blue Springs will develop and implement the following mechanisms to effectively prohibit illicit discharges to the MS4 on the respective schedule:

	Year 1	Year 2	Year 3	Year 4	Year 5
City Ordinance	X				
Inspection	X	X	X	X	X

4.2.3.2.3 Enforcement

Blue Springs will set forth in the ordinance enforcement procedures intended to remove the source of the illicit discharge detected.

Blue Springs will ensure implementation of the mechanisms described in 4.2.3.2.2 above with the following enforcement actions:

	Year 1	Year 2	Year 3	Year 4	Year 5
Discontinue Water Service	X	X	X	X	X
Civil Penalties	X	X	X	X	X

4.2.3.2.4 Detection

Blue Springs will detect and address illicit discharges to the MS4, including discharges from illegal dumping and spills. Blue Springs's program will address on-site sewage disposal systems that flow into the MS4.

4.2.3.2.4.1 Identify Priority Areas

Blue Springs will use the system maps identified in 4.2.3.1.2 above and other data to identify priority areas with likelihood of illicit connections.

4.2.3.2.4.2 Trace the Source

N/A

4.2.3.2.4.3 Removal

Blue Springs will follow the ordinance adopted and the enforcement mechanisms detailed in the ordinance including those legal actions described in 4.2.3.1.3 above to enforce the removal of an identified illicit connection.

4.2.3.2.4.4 Program Evaluation

The success of the described program will be evaluated annually by analyzing the number of illicit connections discovered and eliminated.

4.2.3.2.5 Public Information

Blue Springs will inform public employees, business and the general public of hazards associated with illegal discharges and improper disposal of waste through the following methods:

	Year 1	Year 2	Year 3	Year 4	Year 5
Educational Programs:					
Procedural Training for City Staff	X	X	X	X	X
Distribute Literature	X	X	X	X	X
Recycling Program for Household Hazardous Waste	X	X	X	X	X

	Year 1	Year 2	Year 3	Year 4	Year 5
Volunteer Programs:					
Storm Drain Stenciling	X	X	X	X	X
Household Hazardous Waste Collection	X	X	X	X	X
Illegal Dumping Hotline	X	X	X	X	X

Where applicable the information distributed through these means will coordinate with the information distributed in the Public Education minimum control measure (e.g., consistent/coordinated messages in literature).

4.2.3.2.6 Responsible Party

The responsible party for the overall management and implementation of Blue Springs stormwater illicit discharge detection and elimination program will be chosen by Blue Springs after examination of all parties involved in the execution of each program. Others will be involved in the execution of individual activities.

4.2.3.2.7 Measurable Goals

Blue Springs will evaluate the success of the program based on:

The number of illicit connections found and eliminated.

Blue Springs selected the measurable goals for each of the BMPs after reviewing EPA & ASCE research on the effectiveness of certain BMPs. The BMPs selected were chosen because of the evidence that they will have a positive impact the target pollutants identified as a concern for Blue Springs. Some of the methods to detect and eliminate illicit discharges were also chosen because they have been used effectively by Blue Springs in the past. The

implementation of BMPs selected will determine the success of the measure on water quality.

MCM #4: Construction Site Stormwater Runoff Control

4.2.4.1 Permit Requirements

Blue Springs will examine the need to develop, implement, and enforce a program to reduce pollutants in any stormwater runoff from construction activities that result in disturbance of greater than or equal to one acre. Blue Springs will also take appropriate measures to reduce pollutants in stormwater runoff from construction activities that disturb an area less than one acre if the site is part of a larger common plan of development or sale.

4.2.4.1.1 Regulatory Mechanism

Blue Springs will examine or update, as needed an ordinance or other regulatory mechanism with the required erosion and sediment controls to ensure compliance.

4.2.4.1.2 Best Management Practices (BMPs)

Blue Springs will require construction site operators to implement the appropriate erosion and sediment control Best Management Practices (BMPs). Blue Springs will adopt the Kansas City Metro American Public Works Association (APWA)'s Erosion and Sediment Control Manual in their ordinance, which includes the construction specifications, and design standards.

4.2.4.1.3 Wastes to Be Controlled

Blue Springs will require construction site operators to control wastes that may cause adverse impacts to water quality such as:

1. Discarded Building Materials
2. Sediment
3. Litter or Trash
4. Sanitary Waste

4.2.4.1.4 Site Plan Review

Blue Springs will implement procedures in their ordinance for site plan review, which will incorporate consideration of potential water quality impacts.

4.2.4.1.5 Receipt & Consideration of Public Comment

Blue Springs will implement procedures in their ordinance for receipt and consideration of information submitted by the public.

4.2.4.1.6 Site Inspection

Blue Springs will implement procedures, as needed for site inspection of erosion and sediment control measures.

4.2.4.2 Decision process

The following is the rationale statement for the development of Blue Springs's overall construction site stormwater runoff control program. It documents the individual BMPs, measurable goals, and responsible party for their program.

4.2.4.2.1 Regulatory Mechanism

Blue Springs will consider the use of an ordinance or other regulatory mechanism that will address erosion and sediment controls on construction sites. This mechanism will outline the requirements for designers and contractors before, during and after the construction activities.

Other mechanisms that will be available to anyone involved in design and construction of erosion and sediment control activities. Those mechanisms include:

	Year 1	Year 2	Year 3	Year 4	Year 5
Design Methodologies	X	X	X	X	X
BMP Fact Sheets	X	X	X	x	X
Sample Plans	X	X	X	X	X
Construction Specifications	X	X	X	X	X
Standard Details	X	X	X	X	X
Staff Training	X	X	X	X	X

4.2.4.2.2 Enforcement

Blue Springs will ensure compliance with control measures through sanctions and other enforcement mechanisms. Blue Springs will use the following sanctions:

1. MDNR Regulated Permits
2. Ordinance

4.2.4.2.3 Implementation of Proper Controls

Blue Springs will require construction site operators to control wastes that may have adverse impacts on water quality including:

	Year 1	Year 2	Year 3	Year 4	Year 5
Implementation of Proper Erosion and Sediment Controls	X	X	X	X	X

4.2.4.2.4 Pre-Construction Site Plan Review

Blue Springs will implement procedures for site plan review, including the review of pre-construction plans, which will look at the potential water quality impacts. Blue Springs will implement procedures and rationale for those sites that do not require site plan review. The estimated percentage of sites that will have a pre-construction site plan review is 100%.

	Year 1	Year 2	Year 3	Year 4	Year 5
Review of Construction Plans	X	X	X	X	X

4.2.4.2.5 Public Input on Submittals

Blue Springs will not implement procedures for receipt and consideration of information submitted by the public.

4.2.4.2.6 Site Inspection & Enforcement

Blue Springs will implement procedures for site inspection and enforcement of control measures. The sites will be inspected using a priority rating system. The site with the most potential risk to the community will be top on the priority list.

	Year 1	Year 2	Year 3	Year 4	Year 5
Site Inspection and Enforcement	X	X	X	X	X

4.2.4.2.7 Person Responsible

The responsible party for the overall management and implementation of Blue Springs construction site stormwater runoff control will be chosen by Blue Springs after examination of all parties involved in the execution of each program. Others will be involved in the execution of individual activities.

4.2.4.2.8 Measurable Goals

Blue Springs selected the measurable goals for each of the BMPs after reviewing EPA & ASCE research on the effectiveness of certain BMPs. The BMPs selected were chosen because of the evidence that they will have a positive impact on the target pollutants identified for Blue Springs. The implementation of BMPs selected will determine the success of the measure on water quality.

MCM #5: Post-Construction Stormwater Management in New Development and Redevelopment

4.2.5.1 Permit Requirement

4.2.5.1.1 Overview

Blue Springs will continue to revise, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

4.2.5.1.2 Strategies

Blue Springs will continue to revise and implement strategies, which will include a combination of structural and/or non-structural Best Management Practices (BMPs), appropriate for the community.

4.2.5.1.3 Ordinance

Blue Springs will use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State or Local law.

4.2.5.1.4 Long-Term Operation & Maintenance

Blue Springs, through the responsible parties, will ensure adequate long-term operation and maintenance of BMPs.

4.2.5.2 Decision Process

The following is the rationale statement for the development of a post-construction stormwater management program. It documents the BMPs, measurable goals, and responsible party for the program.

4.2.5.2.1 Priority Areas

Blue Springs will implement regulatory procedures to address stormwater runoff from new development and redevelopment projects. There are no areas identified as a priority for regulatory procedures.

4.2.5.2.2 Regulatory Procedures

Blue Springs will implement regulatory procedures that will be specifically tailored for the community, minimize water quality impacts, and attempt to maintain pre-development runoff conditions.

	Year 1	Year 2	Year 3	Year 4	Year 5
Inspection and Maintenance of Long-Term Controls	X	X	X	X	X
Zoning Ordinances	X	X	X	X	X
Comprehensive Plans	X	X	X	X	X
Publication of BMPs	X	X	X	X	X

4.2.5.2.3 Non-Structural Best Management Practices (BMPs)

4.2.5.2.3.1 Policies & Ordinances

Blue Springs will implement policies and ordinances that will help minimize water quality impacts.

	Year 1	Year 2	Year 3	Year 4	Year 5
Maintain and/or Increase Open Space	X	X	X	X	X
Provide Buffers Along Sensitive Water Bodies	X	X	X	X	X
Minimize Impervious Surfaces	X	X	X	X	X
Minimize Disturbance of Soils and Vegetation	X	X	X	X	X

4.2.5.2.3.2 Infill Development

N/A

4.2.5.2.3.3 Education

Blue Springs will implement education programs for developers and the public about project designs that minimize water quality impacts.

4.2.5.2.3.4 Other Non-Structural Measures

N/A

4.2.5.2.4 Structural BMPs

4.2.5.2.4.1 Structural BMPs

Blue Springs will implement and maintain the following structural BMPs:

	Year 1	Year 2	Year 3	Year 4	Year 5
Detention/Retention	X	X	X	X	X
Filtration Practices	X	X	X	X	X

4.2.5.2.5 Regulatory Mechanism

Blue Springs will implement an ordinance or other regulatory mechanism to address post-construction runoff from new developments and redevelopments. These mechanisms will help to not only recommend proper practices, but will help enforce the proper use of the practices under certain circumstances. They include:

	Year 1	Year 2	Year 3	Year 4	Year 5
Ordinance	X	X	X	X	X
Inspection and Maintenance of Long-Term Controls	X	X	X	X	X
Zoning Ordinances	X	X	X	X	X
Comprehensive Plans	X	X	X	X	X
Publication of BMPs	X	X	X	X	X

Blue Springs will ensure compliance with the developed ordinance by way of sanctions and enforcement mechanisms. Blue Springs will implement the following sanctions in their ordinance:

1. MDNR Regulated Permits
2. Ordinance

4.2.5.2.6 Long-Term Operation & Maintenance

Blue Springs will implement options to help ensure the long-term operation and maintenance of their selected BMPs. These options will help ensure that future O&M responsibilities are clearly identified.

4.2.5.2.7 Responsible Party

The person responsible for overall management and implementation of the permittee's stormwater public education and outreach program is the **PUBLIC WORKS DIRECTOR**. Others will be involved in the execution of each of the individual activities in the programs.

4.2.5.2.8 Measurable Goals

Blue Springs selected the measurable goals for each of the BMPs after reviewing EPA & ASCE research on the effectiveness of certain BMPs. The BMPS selected were chosen because of the evidence that they will have a positive impact on the target pollutants identified as a concern for Blue Springs. The implementation of BMPs selected will determine the success of the measure on water quality.

MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations

4.2.6.1 Permit Requirement.

4.2.6.1.1 Overview

Blue Springs will continue to update and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

4.2.6.1.2 Training

Using training materials that are available from EPA, State and other organizations, Blue Springs's program will include employee training to prevent and reduce stormwater pollution from activities.

4.2.6.2 Decision Process

Blue Springs has documented their decision process for the development of a pollution prevention/good housekeeping program for municipal operations. Blue Springs's rational statement addresses both their overall pollution prevention/good housekeeping program and the individual BMP's, measurable goals, and responsible persons for the program. The rational statement is as follows:

4.2.6.2.1 Pollution Prevention & Good Housekeeping Measures

Blue Springs will implement pollution prevention and good housekeeping measures in the following City activities:

	Year 1	Year 2	Year 3	Year 4	Year 5
Catch Basin Cleaning	X	X	X	X	X
Street Sweeping	X	X	X	X	X
Recycling Program	X	X	X	X	X
Maintenance Schedule	X	X	X	X	X
Maintenance Activities	X	X	X	X	X
Long-Term Inspection Procedures	X	X	X	X	X
Employee Training	X	X	X	X	X

4.2.6.2.2 Employee Training

Blue Springs will revise and implement an employee-training program in the following areas so as to prevent and reduce stormwater pollution from the following activities:

	Year 1	Year 2	Year 3	Year 4	Year 5
Park and Open Space Maintenance	X	X	X	X	X
Fleet and Building Maintenance	X	X	X	X	X
Stormwater System Maintenance	X	X	X	X	X
Street Maintenance	X	X	X	X	X
Snow Removal Operations	X	X	X	X	X

These activities will be coordinated with the outreach programs developed for the public information and illicit discharge minimum control measures so that a consistent message is presented throughout Blue Springs's program.

4.2.6.2.3 Activities

Blue Springs's program will address the following areas:

4.2.6.2.3.1 Clean Up Activities

The following activities will be revised and implemented to reduce the floatables and other pollutants in the MS4:

	Year 1	Year 2	Year 3	Year 4	Year 5
Catch Basin Cleaning	X	X	X	X	X
Street Sweeping	X	X	X	X	X
Maintenance Schedule	X	X	X	X	X
Maintenance Activities	X	X	X	X	X
Long-Term Inspection Procedures	X	X	X	X	X

4.2.6.2.3.2 Pollutant Locations

Blue Springs would like to reduce or eliminate the discharged pollutants from the following locations:

1. Streets
2. Roads
3. Highways
4. Municipal Parking Lots
5. Maintenance and Storage Yards

6. Salt/Sand Storage Locations

The following controls and/or programs will be implemented to reduce or eliminate the discharge of pollutants from facilities owned by Blue Springs:

	Year 1	Year 2	Year 3	Year 4	Year 5
Recycling Program	X	X	X	X	X
Employee Training	X	X	X	X	X

4.2.6.2.3.3 Pollutant Removal

Blue Springs will implement training procedures for the removal of dredge spoil, accumulated sediments, floatables, and other debris.

4.2.6.2.3.4 Flood Management

Blue Springs will review their current regulations concerning flood management to ensure they allow for:

1. Assessment and implementation of solutions that address impacts to water quality for new projects and;
2. Review of existing projects for inclusion of water quality aspects.

4.2.6.2.4 Responsible Party

The **PUBLIC WORKS DIRECTOR** will be responsible for overall management and implementation of the pollution prevention and good housekeeping program for Blue Springs. Others will be involved in the execution of each of the individual activities in the programs.

4.2.3.2.5 Program Evaluation

Blue Springs will evaluate the success of the pollution prevention/good housekeeping minimum control measure by tracking the progress of each measure against the implementation schedule. Each one of the measures described in this permit was chosen based on its implementability by Blue Springs staff and impact on water quality.

T: drive

OUTFALL 001

Legal Description	¼ NW, ¼ SE, Sec 5, T48N, R30W, Jackson County
Latitude: +3900000	Longitude: –09415000
Receiving Water	Unnamed Tributary to Sni-A-Bar Creek(U)
1St Classified	Sni-A-Bar Creek(P) (399)
USGS/ SUB WATERSHED	10300101-110002

OUTFALL 002

Legal Description	¼ SW, ¼ NE, Sec 23, T49N, R31W, Jackson County
Latitude: +3902500	Longitude: –09418000
Receiving Water	Burr Oak Creek(C)
1St Classified	Burr Oak Creek(C) (3414)
USGS/ SUB WATERSHED	10300101-050003

OUTFALL 003

Legal Description	¼ SE, ¼ SW, Sec 12, T48N, R31W, Jackson County
Latitude: +3859000	Longitude: –09417300
Receiving Water	Unnamed Tributary to Jacomo Lake(U)
1St Classified	Jacomo Lake(L3) (7101)
USGS/ SUB WATERSHED	10300101-050001

OUTFALL 004

Legal Description	¼ NE, ¼ NW, Sec 12, T48N, R31W, Jackson County
Latitude: +3859300	Longitude: –09417300
Receiving Water	East Fork Little Blue River(C)
1St Classified	East Fork Little Blue River(C) (428)
USGS/ SUB WATERSHED	10300101-050001

OUTFALL 005

Legal Description	¼ SE, ¼ SE, Sec 1, T48N, R31W, Jackson County
Latitude: +3859450	Longitude: –09417000
Receiving Water	East Fork Little Blue River(C)
1St Classified	East Fork Little Blue River(C) (428)
USGS/ SUB WATERSHED	10300101-050001

OUTFALL 006

Legal Description	¼ SW, ¼ NE, Sec 2, T48N, R31W, Jackson County
Latitude: +3900150	Longitude: –09418000
Receiving Water	East Fork Little Blue River(C)
1St Classified	East Fork Little Blue River(C) (428)
USGS/ SUB WATERSHED	10300101-050001

OUTFALL 007

Legal Description	¼ NE, ¼ NE, Sec 3, T48N, R31W, Jackson County
Latitude: +3900300	Longitude: –09419000
Receiving Water	Unnamed Tributary to Blue Springs Lake(U)
1St Classified	Blue Springs Lake(L2) (7358)
USGS/ SUB WATERSHED	10300101-050001

Blue Springs Small MS4
Jackson Co.
SWMP

Ruth Wallace/WPCP/DEQ/MODNR
11/02/2007 08:45 AM

To Patricia Conger/WPCP/DEQ/MODNR@MODNR
cc
bcc
Subject Fw: december 3

Pat, please update file status to reflect this extension for Blue Springs. Am making an exception for them.

----- Forwarded by Ruth Wallace/WPCP/DEQ/MODNR on 11/02/2007 08:44 AM -----

"Cesar Yanes" <CYanes@bluespringsgov.com>
11/02/2007 08:39 AM

To "Ruth Wallace" <ruth.wallace@dnr.mo.gov>
cc
Subject RE: december 3

Ruth,
Thank you for all your help and direction.

From: Ruth Wallace [mailto:ruth.wallace@dnr.mo.gov]
Sent: Thursday, November 01, 2007 4:47 PM
To: Cesar Yanes
Subject: december 3

Cesar,
I have Blue Springs on the calendar to submit the complete MS4 application packet by December 3, 2007.

Ruth A. Wallace
Municipal Storm Water Program Coordinator
Water Pollution Control Branch
(573) 522-1131

Missouri Storm Water Information Clearinghouse
http://www.dnr.mo.gov/env/wpp/stormwater