

CITY OF ANNISTON STORMWATER MANAGEMENT PLAN (SWMP)

National Pollutant Discharge Elimination System
(NPDES) Phase II Municipal Separate Storm Sewer
System (MS4) Permit ALR040004

Submitted To:

Alabama Department of Environmental Management
Water Division
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2059
March 2014

Prepared By:
www.ecologicalplanning.net



Introduction

Background

This Stormwater Management Plan (SWMP) has been prepared in compliance with the City of Anniston (City) National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Separate Storm Sewer System (MS4) Permit ALR040004. On January 31, 2011, the Alabama Department of Environmental Management (ADEM) issued Permit ALR040004 (hereinafter “the Permit”), which established certain requirements on the discharge of pollutants from the MS4 to waters of the State. The Permit was modified on February 24, 2012. The Permit expires January 31, 2016.

This SWMP is also being prepared to satisfy the requirements contained within the Consent Order issued final by ADEM on January 8, 2014. On October 7, 2013, the City of Anniston received a draft Consent Order from ADEM requiring the City to prepare a revised SWMP plan that included a schedule for implementation (i.e., Compliance Plan) that identifies the program changes necessary for the Permittee to implement to achieve compliance with NPDES Permit Number ALR040004. Accordingly, the City has prepared the revised SWMP, herein, in compliance with this mandate from ADEM. The City intends to implement the Best Management Practices (BMPs) outlined in the revised SWMP, upon its final approval from ADEM, not later than 180 days after the effective date of the Consent Order.

Site Description

The City of Anniston is located in northeast Alabama and is the county seat of Calhoun County. Anniston is roughly 45 square miles, which equates to 29,000 acres. The City is located on the north side of Interstate 20 and falls about halfway between Atlanta, Georgia to the east and Birmingham, Alabama to the west. Located to the south of Anniston is the City of Oxford. These two urban areas make up the Anniston-Oxford Metropolitan Area.

The City’s population as of the 2010 Census is 23,106, which is a 4.8% decline since the 2000 Census. The City’s population peaked in the 1950s and 1960s at over 30,000 people and has experienced slight declines in each decennial census since.

Known or Suspected Water Quality Concerns

There are five “major” watersheds that intersect the City of Anniston, though the majority of the City falls within three of these basins. Each “major” watershed is categorized under the United States Geological Survey (USGS) system of drainage basin cataloging know as a Hydrologic Unit Code (HUC). The five watersheds intersecting the City of Anniston are categorized using a 12 digit HUC code; more commonly referred to as HUC12 basins. The following table identifies the basins intersecting the City, the total area within the City, and the percentage that the City accounts for within the drainage basin as a whole.

Table 1: HUC 12 Watershed within the municipal limits of Anniston, Alabama

| Name of Watershed | Total Acreage of Watershed | Acreage in Anniston | % of Basin in Anniston |
|-------------------------------|-----------------------------------|----------------------------|-------------------------------|
| Coldwater Springs | 15,943 | 1930 | 12% |
| Hillabee Creek | 62,717 | 15445 | 25% |
| Upper Cane Creek | 37,775 | 8951 | 24% |
| Upper Tallassee hatchee Creek | 42,253 | 2481 | 6% |
| Willis Branch | 38,125 | 182 | 0% |

Each of these “major” watersheds ultimately drain to the Coosa River. Some of the more significant waterways within these basins are Cane Creek, Choccolocco Creek, Coldwater Spring Branch, Hillabee Creek, Shoal Creek, Snows Branch, and Tallassee hatchee Creek. The exhibit included on the next page illustrates the HUC 12 drainage basins and waterways in the vicinity of Anniston.

There are currently no waterways within the City limits of Anniston that are on the 303(d) list for not meeting applicable water quality standards. This list is issued every two years and includes those waterways that have water quality impairments based on monitoring conducted by ADEM. The City will continue to monitor this list to determine if any of the streams/watersheds within the City are found to be impaired by future water quality monitoring efforts.

Responsible Party

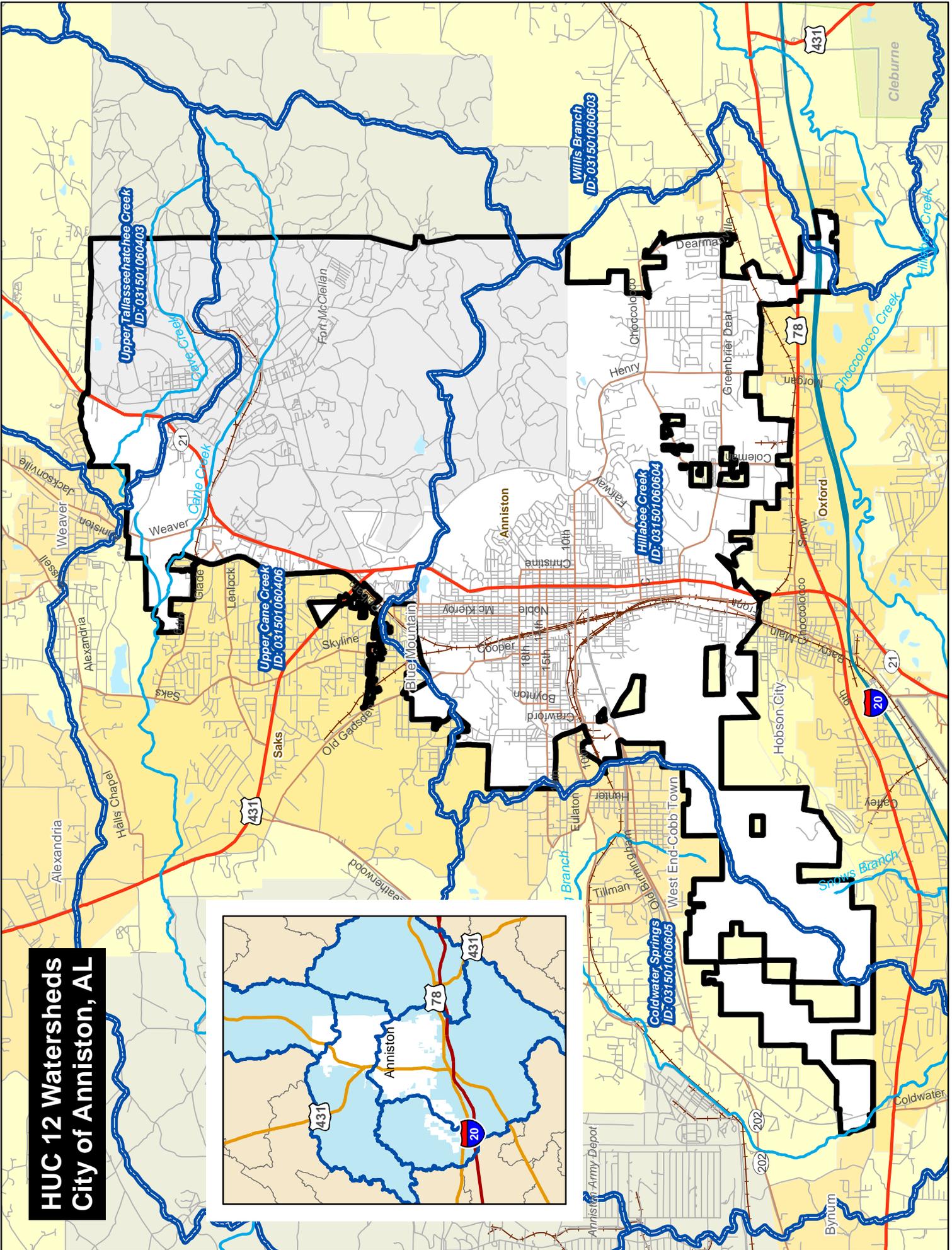
Upon issuance of the NPDES Phase II MS4 Permit, the City of Anniston entered into an arrangement with Calhoun County to be a co-permittee under the aforementioned permit. As part of the arrangement, Calhoun County agreed to develop and implement several elements of the required Stormwater Management Plan (SWMP) and to submit an Annual Report on behalf of the City of Anniston. In May of 2013, Calhoun County notified the City that the County would no longer be implementing any part of the SWMP for the City of Anniston. The City of Anniston is now responsible for development and implementation of a City-specific SWMP, and will independently submit the Annual Report to ADEM.

The City’s SWMP is composed of several programs operating under various departments within the City’s organization. Components of the SWMP are implemented as described below:

City Engineer – The City Engineer is an employee of the Public Works Department and manages overall SWMP implementation and compliance with Phase II Stormwater Permit. The Engineer monitors residential and commercial construction and conducts erosion and sediment control inspections. The Engineer also manages the Illicit Discharge and Detection (IDDE) program and assists the Public Works Department with annual detention pond inspections, city facility inspections, and review of capital drainage improvement projects. The City Engineer also provides assistance with various public education and public involvement activities.

Public Works Department - Public Works staff also perform maintenance of stormwater infrastructure, operate the use oil recycling program, and implement the street sweeping program.

HUC 12 Watersheds City of Anniston, AL



Planning and Inspections Department – Staff of the Planning and Inspections Department review development plans for compliance with the City’s Stormwater Ordinances and coordinate the annual Citywide Cleanup

Responsible Staff Person

Kevin Ashley, City Engineer
City of Anniston Public Works Department
P.O. Box 2168, Anniston AL, 36202
256-231-7750
kashley@anniston.al.gov

Certifying Official

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Stormwater Management Program Components

The Phase II stormwater regulations require operators of small MS4s in urbanized areas to develop and implement stormwater management programs employing best management practices (BMPs) to adequately address the six minimum control measures. The control measures include:

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

The City utilized the template SWMP document, provided by ADEM, to prepare this SWMP. This template ensures that the SWMP prepared by the City addresses all applicable NPDES Phase II MS4 requirements and includes the information required by ADEM.

**Storm Water Management Plan
Minimum Control Measure #1 (Part II.B.1 of Permit)
Public Education and Outreach on Storm Water Impacts**

| Public Education and Outreach Program | |
|--|---|
| Permit Requirement (Part II.B.1.a) | The Permittee must implement a public education and outreach program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff to the maximum extent practicable. |
| Program Objective: | The objective of the City of Anniston's Public Education and Outreach Program is to educate a wide audience that includes the general public, homeowners, and local businesses about the impacts of stormwater pollution and the steps they can take to prevent it. The goal of this program shall be to reduce stormwater pollution by encouraging the public to change their activities/habits that can contribute to non-point source pollution. |
| <p>Program Description: A successful public education program utilizes several different tools to disseminate the desired message to its audience. By offering different avenues for education, the City can ensure that it reaches as wide of an audience as possible. The education BMPs that the City will implement include the following:</p> <p>BMP 1.A: Radio Public Service Announcements (PSAs): The City will work with local radio stations to issue one (1) PSA per year informing the public about stormwater issues including: impacts of stormwater runoff, steps they can take to prevent stormwater pollution, how to report an illicit discharge or dumping event, as well as information regarding opportunities to get involved in stormwater program activities such as the Citywide Cleanup. The date(s) that the PSA is aired will be recorded and provided to ADEM in the Annual Report. This BMP is designed to reach all target audiences based on the specific message of the individual PSA.</p> <p>BMP 1.B: Stormwater Webpage: The City of Anniston will continue to operate and update its stormwater webpage. This webpage will be accessible from the City's homepage and will include brochures, fact sheets, and general information about the following stormwater issues:</p> <ul style="list-style-type: none"> a) Tips to prevent stormwater pollution b) Best management practices for local business such as landscapers, contractors, pest control companies, restaurants, etc., to prevent stormwater pollution c) Tips for proper storage and disposal of household hazardous substances d) An email link and a phone number for citizens to report illicit dumping, illicit discharges, and erosion and sediment control violations. e) A copy of the City's most recent Stormwater Management Plan (SWMP), Annual Reports, and other related documents will be posted online. <p>The City will update the information on the webpage on an annual basis, and will also include a counter on the webpage to record the number of visits. The webpage address will be included in other promotional and education materials to encourage the public to visit it. This BMP targets all identified audiences including the general public, homeowners, and local businesses.</p> <p>BMP 1.C: Utility Bill Stuffers/Headers: In order to reach the widest audience possible, the City will include educational information on stormwater issues in the public utility bills for all of its customers. The City may opt to include a utility bill stuffer or to put an educational message in the utility bill header. Messages may include advertising the City's Stormwater Webpage, encouraging citizens to report illicit discharges and illegal dumping, or providing tips to prevent stormwater pollution. The City will provide one (1) insert or bill stuffer per year, and will include a copy of the bill/insert in the Annual Report. This BMPs is designed to reach a general audience.</p> | |

BMP 1.D: Water Festival: The City of Anniston will work with neighboring communities, ADEM, and the Anniston Board of Education to facilitate a Groundwater Festival. The City will utilize the guidance document produced by ADEM to plan and coordinate the festival. The City will form a coordinating committee that will work to set the budget, select a location, choose the age group, identify volunteers, and register schools to participate. The City will start small with the initial Water Festival, with the hope that his will become an annual event that will grow in size. Materials produced during the planning an implementation of the festival will be included in the Annual Report. This BMP is designed to reach a general audience with a targeted audience of school-age children.

Implementation Schedule:

BMP 1.A: Radio PSAs

- a) Initial Implementation Date: December 2014
- b) Frequency: PSAs aired once per year

BMP 1.B: Stormwater Webpage:

- a) Initial Implementation Date: August 2014
- b) Frequency: Webpage updated once per year

BMP 1.C: Bill Stuffer/Header:

- a) Initial Implementation Date: August 2014
- b) Frequency: Bill stuffer or header issued once per year

BMP 1.D: Water Festival

- a) Initial Implementation Date: May 2016.
- b) Frequency: Water Festival to be held annually thereafter.

**Decision Process:
(Part II.B.1.b)**

The Permittee must document the methodology for the development of a storm water public education and outreach program. The rationale statement must address the overall public education program and the individual BMPs, measureable goals and responsible person(s) for the program. The rationale statement shall include the following information at a minimum:

How the Permittee plans to inform individuals and households about the steps they can take to reduce storm water pollution (Part II.B.1.b.i).

The City will utilize Radio PSA's, the Stormwater Webpage and the Bill Stuffer/Header to educate individuals and households about the measures they can take to reduce stormwater pollution. The City will take advantage of existing brochures and fact sheets produced by the US Environmental Protection Agency (EPA), ADEM, and watershed groups. This information will be placed on the website and referenced in the PSAs and bill stuffers/headers.

How the Permittee plans to inform individuals and groups on how to become involved in the storm water program (with activities such as local stream, lake, and beach restoration activities) (Part II.B.1.b.ii).

The City will include links and advertise programs such as the Anniston Citywide Cleanup, the Anniston Storm Drain Marking program, Adopt-a-Stream and other local watershed activities on the City's website. The City will develop a calendar of activities to place on the website that will provide information on the date and time of events planned in the Anniston area.

Who are the target audiences for the education program who are likely to have significant storm water impacts (including commercial, industrial and institutional entities) and why those target audiences were selected (Part II.B.1.b.iii).

The City's target audiences includes the following:

- a) General Public (homeowners and citizens): Potential contributors of stormwater pollution through activities such as illicit discharges, car washing/oil changes, pet wastes, and over-fertilization of lawns. The primary pollutants potentially contributed by this target audience are nutrients and pathogens.
- b) Engineers, Developers and Contractors: Potential contributors of stormwater pollution through development and construction activities as well as engineering design of stormwater pollution prevention best management practices. The primary pollutants potentially contributed by this target audience is primarily sediment.
- c) Landscape and pest control companies: Potential contributors of stormwater pollution primarily through lawn maintenance activities. The primary pollutants potentially contributed by this target audience are excess nutrients, biological oxygen demand, and pesticides.
- d) Golf courses: Potential contributors of stormwater pollution primarily through golf course maintenance activities. The primary pollutants potentially contributed by this target audience are excess nutrients.
- e) Local Businesses (Restaurants, Car Washes, Vets/Kennels) Potential contributors of stormwater pollution through activities such as illicit discharges and daily business activities. The primary pollutants contributed by this target audience are excess nutrients and pathogens.
- f) School children: While school children are not necessarily a big source of stormwater pollution, they are one of the most effective means for spreading an educational message. If the City educates children about stormwater issues, then they will go home and educate their parents, who are members of the other audiences described above.

What are the target pollutant sources the Permittee's public education program is to address (Part II.B.1.b.iv).

It is important to note that there are currently no impaired waterways within the City of Anniston currently listed on the 2012 303 (d) list. However, the City is aware that in order to ensure that local waterways continue to meet their designated uses the City must implement an education program for citizens and businesses to address potential pollutant sources.

What is the outreach strategy, including how the Permittee plans to inform the target audiences, the mechanisms and activities (e.g., printed brochures, newspapers, media, workshops, etc.) the Permittee will use to reach the target audiences, and how many people does the Permittee expect to reach by the Permittee's outreach strategy over a permit term (Part II.B.1.b.v).

The outreach strategy is to use various methods of outreach to communicate with the widest audience possible. The public outreach strategies (PSAs, Website, Bill Inserts/Headers, and Water Festival) will target all audiences listed above over the course of the permit term. The strategies are targeted to the following audiences:

- a) PSAs: General Public; Engineers, Developers, and Contractors; Landscape and Pest Control Companies; Golf Courses; and Local Businesses. Each individual PSA will target a different audience and will address all audiences over the term of the permit.
- b) Website: The Website will contain brochures, fact sheets and information targeted at the audiences listed above.
- c) Bill Stuffer/Bill Header: This BMP will primarily target the general public who receive utility services from the City of Anniston.
- d) Water Festival: This BMP is designed to reach an audience of school children and, indirectly, their parents.

It is the City's goal to reach 100% of the City population with at least one outreach method over the course of the permit term.

Measurable Goals (Part II.B.1.b.vii):

BMP 1.A: Radio PSAs:

- a) Air one (1) Radio PSA's per year.

BMP 1.B: Stormwater Webpage:

- a) Update stormwater webpage once per year.

BMP 1.C: Bill Stuffer/Header:

- a) Issue a bill stuffer or header once per year with monthly utility bill.

BMP 1.D: Water Festival:

- a) Coordinate one Water Festival per year.

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| Responsible Party: Contact Information (Part II.B.1.b.vi) | |
| Contact Name: | Kevin Ashley, City Engineer |
| Department: | City of Anniston Public Works Department |
| Address: | P.O. Box 2168, Anniston AL, 36202 |
| Phone: | 256-231-7750 |
| Email: | kashley@anniston.al.gov |
| Supporting Information : | |
| | |
| Reporting Mechanism : | |
| <p>The reporting mechanism for the Public Education and Outreach Program will be the Annual Report. Documentation to be submitted with the Annual Report shall include:</p> <p>BMP 1.A: Radio PSAs:</p> <ol style="list-style-type: none"> Date the PSA was aired. Summary of information covered in the PSA. <p>BMP 1.B: Stormwater Webpage:</p> <ol style="list-style-type: none"> A copy or summary of new information posted on the webpage. Number of visitors to the webpage during the reporting period. Number and summary of illicit discharge complaints received through the website. <p>BMP 1.C: Bill Stuffer/Header:</p> <ol style="list-style-type: none"> A copy of the bill stuffer or the utility bill with header. Date that it was sent to utility account customers. <p>BMP 1.D: Water Festival:</p> <ol style="list-style-type: none"> Date and location of Water Festival. Number and grade level of children who attended. Copy of educational materials utilized including a schedule for the event. | |

**Storm Water Management Plan
Minimum Control Measure #2 (Part II.B.2 of Permit)
Public Involvement/Participation**

| Public Involvement/Participation Program | |
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| Permit Requirement (Part II.B.2.a) | The Permittee must include ongoing activities for public involvement through mechanisms to facilitate opportunities for direct action, educations and volunteer programs. The Permittee must comply with applicable State and local public notice requirements when implementing a public involvement/participation program. |
| Program Objective: | The City of Anniston intends to involve the general public in the development and implementation of its stormwater management program by soliciting public input and providing activities and opportunities to engage the general public in stormwater pollution prevention. |
| <p>Program Description: The public involvement/participation strategy for the City's target audiences will include a variety of activities to appeal to the widest audience possible to encourage participation. Success of the public involvement/participation program will ultimately be gauged by the public's support for the City's stormwater management program, the level of community involvement in the City's stormwater management program and the level of awareness in the community regarding their role in the City's stormwater management program. Specific activities included within the public involvement/participation program will consist of the following best management practices (BMPs):</p> <p>BMP 2.A: City Clean Up: The City of Anniston coordinates an Annual City Clean up to encourage residents and business owners to pick up trash, litter and other debris in their neighborhoods that would otherwise end up in the stormwater drainage system and local waterways. The event is advertised on the City's website and participants are offered refreshments, t-shirts and other giveaways to encourage participation. The City collects the trash and ensures that it is properly disposed of. The City keeps records of the number of volunteers that register and estimates of the amount of debris removed.</p> <p>BMP 2.B: Storm Drain Marking: The City of Anniston will initiate a storm drain marking program. This program will provide storm drain marker kits, free of charge, to individuals and civic groups interested in helping to protect local water resources. Each kit will contain the materials necessary and instructions to mark several storm drain inlets, as well as educational information on our local watersheds. Storm drain marking can provide residents and civic groups an opportunity to earn volunteer hours or fulfill merit badge requirements for organizations. Participants will be asked to return any unused materials to the City and to provide a map or list of drains that were marked. This program will be advertised on the City's stormwater webpage and promotional materials will be available at City Hall.</p> <p>BMP 2.C: Public Input on SWMP Development: The City will invite public comments on this SWMP document during its development. After a draft of the SMWP has been completed, the City will post the SWMP online and make it available at City Hall for residents to view. Residents will be invited to submit comments to the City, electronically or in hard copy, which can then be reviewed and possibly incorporated into the SWMP prior to submittal of the document to ADEM. Once the SWMP is finalized and approved by ADEM, the City will post it on the Stormwater Webpage so that residents can view it and provide input to the City on its implementation.</p> | |

Implementation Schedule:

BMP 2.A: City Clean Up:

- a) Initial Implementation Date: April 2014
- b) Frequency: Clean ups held once per year

BMP 2.B: Storm Drain Marking:

- a) Initial Implementation Date: May 2015
- b) Frequency: Ongoing - Groups will be encouraged to mark storm drains throughout the year.

BMP 2.C: Public Input on SWMP Development

- a) Initial Implementation: Draft SWMP available for public comment in March 2014.
- b) Frequency: Ongoing - Final approved SWMP posted on City's Stormwater webpage.

**Decision Process:
(Part II.B.2.b)**

The Permittee must document the methodology for the development of a storm water public education and outreach program. The rationale statement must address the overall public involvement/participation program and document individual BMPs, measureable goals and responsible person(s) for the program. The rationale statement shall include the following information at a minimum:

How the Permittee has involved the public in the development and submittal of the storm water management plan (Part II.B.2.b.i).

The City of Anniston will make this SWMP available to the public on its website and at City Hall, and will accept public comments prior to its finalization and submittal to ADEM. Once the SWMP is approved, it will be posted on the City Stormwater Webpage, and the public will be invited to comment on its implementation.

What is the Permittee's plan to actively involve the public in the development and implementation of the program (Part II.B.2.b.ii).

Through the public outreach avenues described in Public Education Program Minimum Measure 1, the City of Anniston has several avenues to reach out to the public and encourage their involvement in the development and implementation of the SWMP. The City will make the draft and final SWMPs available for public comment on the City Stormwater Webpage and will also advertise public involvement activities such as the Citywide Clean Up and Storm Drain Marking on the webpage. Promotional materials for these programs will be available in hard copy at City Hall, and the PSA's issued by the City will also promote these programs.

The target audiences for the public involvement program, including a description of the audiences' demographic characteristic (Part II.B.2.b.iii).

The City's target audiences includes the following:

- a) General Public (homeowners and citizens): This group encompasses all citizens of Anniston and represents the widest demographic.
- b) Civic Groups: This target audience includes groups such as boy scouts, church groups, and volunteer organizations such as Rotary. These groups are often looking for volunteer opportunities and could be encouraged to get involved in one of the public involvement programs listed here.
- c) Local Businesses: Local businesses can also be encouraged to get involved in local programs that improve the community, provide positive public relations for the business, and/or provide volunteer opportunities for their employees
- d) School Children: While school children are not necessarily a big source of stormwater pollution, they are one of the most effective means for spreading an educational message. School groups can often be encouraged to participate in public involvement programs as a means to educate students about the environment and water resources.

What are the types of public involvement activities included in the program (Part II.B.2.b.iv).

There are several types of public involvement activities included in this program. There are three volunteer public participation programs including the City Clean Up and Storm Drain Marking. There is also an opportunity provided by the City for public input into the SWMP program itself by accepting written or electronic comments on the SWMP.

Measurable Goals (Part II.B.2.b.vi):

BMP 2.A: City Clean Up:

- a) Hold clean up once per year
- b) Place promotional materials on website and update every year.

BMP 2.B: Storm Drain Marking:

- a) Facilitate one volunteer marking event per year.
- b) Place promotional materials on website and update every year.

BMP 2.C: Public Input on SWMP Development

- a) Post SWMP on website and at City Hall for public comment.

Responsible Party: Contact Information (Part II.B.2.b.v)

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| Contact Name: | Kevin Ashley, City Engineer |
| Department: | City of Anniston Public Works Department |
| Address: | P.O. Box 2168, Anniston AL, 36202 |
| Phone: | 256-231-7750 |
| Email: | kashley@anniston.al.gov |

Supporting Information :

Reporting Mechanism :

BMP 2.A: City Clean Up:

- a) Number of participating volunteers
- b) Copy of promotional materials
- c) Estimate of the amount of debris cleaned up

BMP 2.B: Storm Drain Marking:

- a) Names and numbers of volunteer groups that participated during the reporting period
- b) Copy of promotional materials
- c) Number and map of storm drains marked

BMP 2.C: Public Input on SWMP Development:

- a) Copy of all comments submitted to the City of Anniston on the draft SWMP.

**Storm Water Management Plan
Minimum Control Measure #3 (Part II.B.3 of Permit)
Illicit Discharge Detection and Elimination (IDDE)**

| Illicit Discharge Detection and Elimination Program | |
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| Permit Requirement (Part II.B.3.a.i) | The Permittee shall include an ongoing program to detect and eliminate illicit discharges into the Permittee’s small MS4, and improper disposal, including spills under the purview of another responding authority, into the MS4 owned or operated by the Permittee to the maximum extent practicable. |
| Program Objective: | The primary objective of the City's IDDE program will be to seek, identify and remove illicit discharges to the City's MS4. This program will also attempt to address illicit dumping and spills of pollutants into MS4. This will be accomplished through prioritized and systematic inspection of MS4 Outfalls, dry weather screening of MS4 Outfalls and source tracing the illicit discharge if one is suspected. |
| Program Description: | |
| <p>BMP 3.A. Outfall Reconnaissance Inventory: The City will perform an Outfall Reconnaissance Inventory (ORI) of MS4 outfalls discharging to waterways within the City. The City intends to systematically build the dry weather screening program so the City will ultimately be inspecting and screening 20% of MS4 outfalls in the City on an annual basis. The City intends to “ramp up” its dry weather screening over a 3-year period as shown in the schedule below.</p> <p>MS4 outfalls screened each year will be rotated, unless a potential illicit discharge has been found, in which case that outfall may be re-screened the following year. Outfalls to be inspected and screened in any given year will be</p> | |

prioritized if they discharge from industrial or commercial facilities.

Inspections will be performed during dry weather (i.e. no rain event for 72 hours previous to sample event). During the inspection at each MS4 outfall the City will identify the following 1) background data and 2) a physical description of the outfall. If flow is identified during the inspection, Physical and Quantitative Characteristics of the flow will be measured including odor, color, turbidity, floatables, flow, temperature, pH, Ammonia, Nitrite and Phosphate. Additional Physical Indicators of the outfall structure itself will be inspected if flow is present, including outfall damage, deposits/stains, abnormal vegetation, pool quality, and benthic growth in pipe. City staff will complete a checklist for each MS4 outfall inspected.

Based on the results of the inspection, the City will assess the overall condition of the outfall and whether or not an illicit discharge is suspected. If an illicit discharge is suspected, the City may undertake one or more of the following source tracing measures:

1. Take sample and provide to lab for analysis.
2. Perform additional ORI upstream from suspected MS4 outfall.
3. Perform site inspection of a facility that is suspected of illicitly discharging.
4. Video the storm line to search for source of illicit discharge.

The results of any source tracing activities performed will be recorded on the ORI checklist. If an illicit discharge is positively identified, the City will take enforcement actions as specified in the City's Stormwater Ordinance.

BMP 3.B. Used Oil Recycling:

In an effort to prevent used motor oil from being dumped or spilled into the City's MS4 by residents or businesses, the City offers a used oil recycling program. Residents and business owners within the City of Anniston can bring their used motor oil to the City Public Works Facility where it can be recycled. The City contracts with a used oil recycler to ensure that oil collected is properly handled.

BMP 3.C. Citizen Complaint Program:

The City of Anniston has established a program for addressing citizen complaints about water quality and reports of illicit discharges/illegal dumping. City administrative staff is responsible for receiving citizen complaint calls, and the caller's information is then registered in the Work Order Database. Calls that required investigation are passed along to Public Works staff, which is responsible for taking action to address calls that relate to water quality. The Public Works staff will record actions taken to address the complaint in the work order and maintain a database of all finished work orders related to potential illicit discharges, illegal dumping, and other water quality violations. The number to call to report illicit discharges will be publicized on the City Stormwater Webpage and will also be included in educational outreach materials, as appropriate.

Implementation Schedule:

BMP 3.A.: Outfall Reconnaissance Inventory:

- a) Initial Implementation Date: January 2014
- b) Frequency: Year 1 : 25 MS4 Outfalls
Year 2: 50 MS4 Outfalls
Year 3+: 20% of all MS4 Outfalls per year

BMP 3. B Used Oil Recycling:

- a) Initial Implementation Date: January 2014
- b) Frequency: Ongoing

BMP 3.C Citizen Complaint Response Program:

- a) Initial Implementation Date: January 2014
- b) Frequency: Ongoing

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| Permit Requirement (Part II.B.3.a.ii) | Update the existing storm sewer map to include the following: location of all outfalls and the names and locations of all waters of the State that receive discharges from those outfalls; structural BMPs owned, operated and maintained by boundaries of the Permittee's watershed. |
| Program Objective: | The objective of this BMP will be to update the inventory and create a GIS database of all MS4 outfalls that discharge into local rivers and streams within the City of Anniston. This database will be a tool to help the City identify and eliminate illicit discharges from the MS4 to local waterways. This database will also include all structural BMPs (to include detention ponds, infiltration basins, etc.) within the City limits of Anniston. |
| Program Description: BMP 3.D.: Storm Sewer Map: The City will updates its current inventory of MS4 outfalls by performing a field survey and GPS inventory of the locations of MS4 outfalls and structural BMPs within the City's municipal limits, and this data will be included in the city's GIS database. Please see Appendix B to this document for a map of the current inventory information. The City will continue to update the database on an annual basis as new development occurs, new outfalls are added to the system, and/or new stormwater BMPs are constructed. | |
| Implementation Schedule: BMP 3.D.: Storm Sewer Map: a) Initial Implementation Date: Complete GIS inventory of MS4 Outfalls and Structural BMPs by January 2016. b) Frequency: Update the Storm Sewer Map Annually | |
| Permit Requirement (Part II.B.3.a.iii) | To the extent allowable under State and local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into the MS4 and implement appropriate enforcement procedures and actions. |
| Program Objective: | This BMP is intended to prohibit the discharge, spilling or intentional dumping of pollutants into the MS4. It also provided the City of Anniston the authority and sets procedures for enforcing the prohibition on illicit discharges. |
| Program Description: BMP 3.E.: Illicit Discharge Ordinance: The City adopted a Stormwater Management Regulations as Chapter 29 1/2 of the City's Code. Chapter 8 of these regulations is Illicit Discharges. This section prohibits the discharge of pollutants to the MS4 as follows: "29 1/2.8 (2): Prohibition of illicit discharges. No person shall introduce or cause to be introduced into the municipal separate storm sewer system any discharge that is not composed entirely of stormwater. The commencement, conduct or continuance of any nonstormwater discharge to the municipal separate storm sewer system is prohibited..." These regulations also prohibit illicit connections, require reduction of stormwater pollutants by use of BMPs, and requires notification to the City of spills that occur. Section 29 1/2.9 includes an escalating enforcement procedures if the ordinance is violated. A copy of the current ordinance is included in the Appendix A. | |

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| <p>Implementation Schedule: BMP 3.E.: Illicit Discharge Ordinance: a) Initial Implementation Date: Adopted 2008 b) Frequency: Enforcement of the ordinance is ongoing.</p> | |
| <p>Permit Requirement (Part II.B.3.a.iv)</p> | <p>Implement a program to review and update the IDDE ordinance or other regulatory mechanism to prohibit and eliminate illegal discharges and/or dumping into the MS4. This program shall include:</p> <ul style="list-style-type: none"> • Procedures for locating priority areas likely to have illicit discharges • Field assessment activities |
| <p>Program Objective:</p> | <p>The objective of this BMP is to review and update the City's Illicit Discharge Ordinance to effectively prohibit and eliminate illicit discharges and dumping.</p> |
| <p>Program Description: BMP 3.F. Illicit Discharge Ordinance Review: As recommended in Permit Number ALR04003, the City will evaluate its Illicit Discharge Ordinance on a yearly basis to see what modifications or changes may be needed. The City will review the ordinance to ensure that it provides the authority for the City to identify and eliminate illicit discharge through field activities such as inspections. The City will continue to aggressively pursue, identify and correct illicit discharges that are found within the MS4. If changes are made, a new copy of the revised ordinance will be sent to ADEM.</p> | |
| <p>Implementation Schedule: BMP 3.F.: Illicit Discharge Ordinance Review: a) Initial Implementation Date: Review ordinance and update, if necessary by March 2015. b) Frequency: Perform review annually.</p> | |
| <p>Permit Requirement (Part II.B.3.a.v)</p> | <p>Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.</p> |
| <p>Program Objective:</p> | <p>The objective of this program will be to inform City employees, local businesses and the general public about the dangers of illicit discharges including: what constitutes stormwater pollution, its impact on local waterways, how it can be prevented and how to report a discharge if observed.</p> |
| <p>Program Description: This program will be coordinated with the Public Education Program outlined in MCM 1, BMPs 1.A, 1.B, and 1.C all address education of the general public, city employees and local businesses on illicit discharge prevention. In addition to these BMPs, the City will also implement the following BMP to specifically target businesses that can be considered highly visible pollutant sources.</p> <p>BMP 3.G. City Employee Training: The City of Anniston will provide information on illicit discharges and how to prevent stormwater pollution in the work place for staff that deal with potentially polluting materials as part of their daily activities. The City will first identify appropriate materials, including, but necessarily limited to brochures, training videos, and outside training courses. The City will then initiate an annual training session to be held in association with other Public Works training and/or meetings. The City will keep records of the employees that attend this training and the materials that were distributed. Alternatively, the City may opt to send employees to another applicable training program, conference or seminar.</p> | |

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| <p>Implementation Schedule: BMP 3.G: City Employee Training: a) Initial Implementation Date: Identify education materials and hold/attend training by March 2014. b) Frequency: Annual - provide training/education for applicable Public Works employees annually.</p> | |
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| Permit Requirement (Part II.B.3.a.vii) | Develop a list of occasional incidental non-storm water discharges that will not be addressed as illicit discharges, such as non-commercial or charity car washes. |
| Program Objective: | |
| <p>Program Description: The City's List of Incidental Non-Stormwater Discharges is as follows:</p> <ul style="list-style-type: none"> Water Line Flushing • Landscape Irrigation • Diverted Stream Flows • Rising Ground Waters • Uncontaminated Groundwater Infiltration • Uncontaminated Pumped Groundwater • Discharges from Potable Water Sources • Foundation Drains • Air Conditioning Condensation • Irrigation Water • Springs • Water from Crawl Space Pumps • Footing Drains • Lawn Watering • Individual Residential Car Washing or Charity Car Washes • Flows from Riparian Habitats and Wetlands • De-chlorinated Swimming Pool Discharges | |
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| <p>Implementation Schedule: Update the list as needed and submit with the following annual report.</p> | |
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| Decision Process: (Part II.B.3.b) | The Permittee must document the methodology for the development of a storm water illicit discharge detection and elimination program. The rationale statement must address the overall illicit discharge detection and elimination program and the individual BMPs, measureable goals and responsible person(s) for the program. The rationale statement shall include the following information at a minimum: |
| <p>How the Permittee plans to develop a storm water map showing the location of all outfalls, to include the latitude and longitude, and the names and location of all receiving waters. The sources of information that was used for the map and the verification process of outfalls shall be included. (Part II.B.3.b.i).</p> | |

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| <p>The City will perform a field inventory with GPS equipment that is accurate to the sub-meter. This data will be QA/QC against aerials of the City. The information gathered at each outfall will be tied to the geo-location (lat, long) of each MS4 Outfall. The names of the receiving waters will be gathered from GIS databases including: USGS, State of Alabama, and the Alabama Association of Regional Councils</p> |
| <p>The mechanism (ordinance or other regulatory mechanism) that is used to effectively prohibit illicit discharges into the MS4 and why it was chosen. (Part II.B.3.b.ii).</p> |
| <p>The City has elected to adopt an Illicit Discharge Ordinance to effectively prohibit illicit discharges. This ordinance not only prohibits illicit discharges, dumping and illegal connections to the MS4, it also provide the City with the necessary authority to require commercial and industrial facilities to install BMPs if they are suspected of illicit discharges. It also provide the City with the authority to enforce that prohibition through an escalating system of notices of violation, cease and desist orders, and fines.</p> |
| <p>A plan to ensure through appropriate enforcement procedures and actions that the illicit discharge ordinance or other regulatory mechanism is implemented. (Part II.B.3.b.iii).</p> |
| <p>The City's Illicit Discharge Ordinance contains the enforcement procedures and regulatory mechanisms necessary to enforce the provisions of the ordinance. Section 29 1/2.9. Enforcement and Section 29 1/2.10. Penalties in the Stormwater Management Ordinance contain these elements.</p> |
| <p>Plan to detect and address illicit discharges to the MS4 to include discharge from illegal dumping and spills. This plan must include dry weather screening for non-storm water flows, field tests of chemical parameters selected as indicators of discharges sources, on-site sewage disposal systems that flow to MS4 and procedures for locating priority areas, procedures for tracing sources of illicit discharges, and procedures for removing the source of illicit discharge. (Part II.B.3.b.iv).</p> |
| <p>BMP 3.A. Outfall Reconnaissance Inventory includes the procedures for the City to address illicit discharges through dry weather screening, field tests of chemical parameters, prioritizing areas for screening, source tracing suspected illicit discharges and enforcing the applicable provisions of the Stormwater Ordinance if an illicit discharge is identified.</p> |
| <p>Plan to inform the public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste. (Part II.B.3.b.v).</p> |
| <p>The primary target audiences within the City for the IDDE program and the rationale for selecting these audiences are listed below:</p> <ul style="list-style-type: none"> • General Public (homeowners and citizens): Potential contributors of illicit discharges through activities such as dumping grass clippings, or dumping paint or motor oil, into a storm drain. The primary pollutants potentially contributed by this target audience are based on the material being improperly disposed of. • Developers, Contractors and Homebuilders: Potential contributors of illicit discharges through activities such as sediment being released from a construction site into a waterbody and dumping paint or concrete washwater into a storm drain. The primary pollutants potentially contributed by this target audience are specific to the material being improperly disposed of and could include sediment, petroleum-based products, or other chemicals. • Food Service Facilities: Potential contributors of illicit discharges through improper disposal of fats, oils and greases (FOG). The primary pollutant potentially contributed by this target audience is FOG waste. • Local Businesses such as Pest Control Companies and Dry Cleaners: Potential contributors of illicit discharges through improper disposal of chemicals and materials used at their business. The primary pollutants contributed by this target audience are specific in nature to the type of business and the material being disposed of. • City Employees: Potential contributors of illicit discharges through improper disposal of automotive fluids, as well as landscaping clippings and pesticides related to right-of-way maintenance. <p>BMP 3.G: Employee Training as well as the BMPs in MCM 1: Public Education are all designed to educate these various groups about the danger of illicit discharges and how to prevent and eliminate stormwater pollution.</p> |
| <p>Measurable Goals (Part II.B.3.b.vii): BMP 3.A. Outfall Reconnaissance Inventory:</p> |

- a) Perform dry weather screening annually according to the schedule included here.
- b) Perform source tracing for any suspected illicit discharges
- c) Enforce the provision of the Stormwater Ordinance for identified stormwater discharges.

BMP 3.B: Used Oil Recycling:

- a) Continue to offer used oil recycling for residents of Anniston.
- b) Record the amount of used oil recycled.

BMP 3.C: Citizen Complaint Program:

- a) Investigate all stormwater related citizen complaints
- b) Record complaints and actions taken by City in a database

BMP 3.D: Storm Sewer Map:

- a) Perform GPS inventory of MS4 outfalls and structures by January 2016
- b) Update map annually as new structures are added/built.

BMP 3.E. Illicit Discharge Regulations:

- a) Enforce Provisions of Stormwater Ordinance

BMP 3.F: Illicit Discharge Regulations Review:

- a) Perform annual review of Illicit Discharge Regulations
- b) Place promotional materials on website and update every year

BMP 3.G: Employee Training:

- a) Hold/attend annual employee training beginning in 2014

Responsible Party: Contact Information (Part II.B.3.b.vi)

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| Contact Name: | Kevin Ashley, City Engineer |
| Department: | City of Anniston Public Works Department |
| Address: | P.O. Box 2168, Anniston AL, 36202 |
| Phone: | 256-231-7750 |
| Email: | kashley@anniston.al.gov |

Supporting Information :

- 1. Stormwater Management Ordinance
- 2. Dry Weather Screening Checklist

Reporting Mechanism :

BMP 3.A. Outfall Reconnaissance Inventory:

- a) Copies of dry weather screening forms for MS4 Outfalls screened.

BMP 3.B: Used Oil Recycling:

- a) Amount of used oil recycled

BMP 3.C: Citizen Complaint Program:

- a) Copy/summary of the Citizen Complaint database

BMP 3.D: Storm Sewer Map:

- a) A map and inventory of the MS4 Outfalls and structural BMPs

BMP 3.E. Illicit Discharge Regulations:

- a) Copy/summary of any enforcement actions taken related to illicit discharges.

BMP 3.F: Illicit Discharge Regulations Review:

a) A copy of any updated Illicit Discharge Regulations.

BMP 3.G: Employee Training:

- a) Number of employees trained
- b) Copy of any training materials

**Storm Water Management Plan
Minimum Control Measure #4 (Part II.B.4 of Permit)
Construction Site Storm Water Runoff Control**

| Construction Site Storm Water Runoff Control | |
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| Permit Requirement (Part II.B.4.a.i) | The Permittee must develop, implement, and enforce a program to reduce, to the MEP, pollutants in any storm water runoff to the regulated MS4 from construction activities that result in a total land disturbance of greater than or equal to one acre and activities that disturb less than one acre but are larger common plan of development or sale that would disturb one acre or more. |
| Program Objective: | <p>The Construction Site Stormwater Runoff Control (MCM 4) requires the development, implementation and enforcement of a program to reduce, to the maximum extent practicable, pollutants in any storm water runoff to the MS4 from construction activities that result in a total land disturbance of greater than or equal to one acre and activities that disturb less than one acre but are part of a larger common plan of development or sale that would disturb one acre or more. ADEM terms these sites as qualified construction sites.</p> <p>MCM 4 will target developers, contractors, home builders and professional consultants. MCM 4 will include the training of City staff from the Public Works Department. This program will mainly target construction sites for erosion and sediment control. Other potential targeted pollutants and sources are concrete truck washout, petroleum, sanitary wastes, and litter from construction sites.</p> |
| Program Description: The City will employ a variety of strategies for MCM 4 from training City building inspectors to implementing and enforcing an erosion and sediment control program through City ordinances. The City will rely upon ADEM standards for appropriate erosion and sediment controls for qualified construction sites. There will also be a focus on coordination with ADEM on compliance concerns. | |
| Implementation Schedule: Each strategy will be detailed below along with its goal and timeline and the City department responsible for implementation of the measure. | |
| Permit Requirement (Part II.B.4.b.i) | An ordinance or other regulatory mechanism to require erosion and sediment controls, sanctions to ensure compliance and to provide all other authorities needed to implement the requirements of the construction site storm water runoff. |
| Program Objective: | The City will update its City Code to establish rules and regulations for erosion and sediment control that applies to contractors, developers and engineers performing work in the City. This ordinance will regulate all land disturbances of greater than or equal to one acre and activities that disturb less than one acre but are part of a larger common plan of development or sale that would disturb one acre or more. This ordinance will apply to qualifying commercial, public, and residential properties. |

Program Description:

BMP 4.A. Erosion and Sedimentation Control Regulations:

The City will review its current Stormwater Management Ordinance and determine where updates need to be made to ensure that the City's ordinance meets the requirements of the NPDES Phase II MS4 permit.

The City's code will be updated to require that qualified construction projects implement appropriate erosion and sediment controls in accordance with ADEM's standards. The updated ordinance will include the standard that all land disturbing activities with a total land disturbance of greater than or equal to one acre and activities that disturb less than one acre, but are part of a larger common plan of development, or sale that would disturb one acre or more will be required to apply for a Land Disturbance Permit and will be required to meet applicable Erosion and Sedimentation Control requirements. The ordinance will require all applicable development projects undertaken within the City to submit an erosion and sediment control plan to be designed and submitted by a qualified credentialed professional (QCP). Components of the plan have to meet and/or exceed the Handbook for Best Management Practices for Erosion and Sediment Control, most current edition (Alabama Handbook) and ADEM permit requirements. The ordinance will provide the City with the authority to conduct site plan review, to perform site inspections, and to take enforcement measures including written warning letters and stop work orders.

After adoption of this ordinance, the City will continue to review this ordinance and adopt any changes as necessary to meet the requirements of the NPDES Phase II MS4 permit.

Implementation Schedule:

BMP 4.A. Erosion and Sedimentation Control Ordinance:

- a) Initial Implementation Date: Adopt updated Ordinance by March 2015.
- b) Frequency: Perform review annually.

Permit Requirement (Part II.B.4.b.ii)

A training program for the MS4 site inspection staff in the identification of appropriate construction best management practices.

Program Objective:

The objective of this program it is ensure that all City employees that are either performing construction inspections or reviewing site plans receive the proper training on how to identify appropriate construction best management practices per the applicable design standards.

Program Description:

BMP 4:B Qualified Credentialed Inspector (QCI) Program:

All inspectors performing erosion and sediment control inspections or reviewing site plans in the City of Anniston are required to attend the QCI training program to receive the QCI certification. Inspectors also take the refresher course each year to maintain their QCI certification. This allows staff to be aware of any changes occurring in the state's program from year to year and also provides an opportunity to educate the City's inspectors on proper erosion and sediment control BMPs. The City will continue to invest the time and resources to ensure that inspectors receive the proper training to receive and annually renew their QCI certification during this permit cycle.

Implementation Schedule:

BMP 4.B. Qualified Credentialed Inspector (QCI) Program:

- a) Initial Implementation Date: Staff receive QCI training and certification November 2013.
- b) Frequency: Applicable staff attend annual refreshers to maintain certification

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| Permit Requirement (Part II.B.4.b.iii) | Procedures for prioritization and frequency of inspection activities of qualifying construction sites to verify the use of appropriate erosion and sediment control practices. Priority construction sites must be inspected once per month at a minimum. |
| Program Objective: | The City, in an effort to monitor the management of erosion and sediment control measures on active construction sites, will establish a construction site inspection program. The inspection program will allow City staff to identify deficiencies in erosion and sediment control on active construction sites and initiate appropriate corrective actions. The City will adopt an ordinance providing the authority to conduct inspections and take appropriate enforcement action. |
| <p>Program Description: BMP 4.C: Erosion and Sediment Control Inspections: The City will establish an inspection program for construction sites in the City that meet the standards to be set in the City's Erosion & Sediment Control regulations and that are issued a Land Disturbance Activities Permit. Sites will be inspected after each ¾-inch, 24-hour rainfall event, or a minimum of once per month.</p> <p>The City will utilize ADEM form 500 to record the results of each erosion and sediment control inspection. During the site visit, all discharge points will be inspected and the site conditions will be compared to the approved erosion and sediment control plan. Any deficiencies that are noted will be reported to the site manager and/or the developer. The developer will be given a schedule to correct deficiencies noted during the inspection or face a stop work order until they are corrected. The City will not "close out" a development permit or issue a Certificate of Occupancy until all areas are permanently stabilized, all construction debris removed, and temporary sediment control structures removed. A final inspection is required prior to release from the permit.</p> <p>Enforcement actions will be coordinated with ADEM and will vary based on the severity of the deficiencies. As outlined in the Stormwater Ordinance, the City has an escalating series of enforcement actions ranging from written warnings to stop work orders.</p> <p>When an erosion or sediment control complaint regarding a construction site is received, immediate action will be taken by the City to inspect, document and resolve the compliance issue using enforcement if needed. The complaints will be recorded in the Citizen Complaint database outlined in BMP 3.C.</p> | |
| <p>Implementation Schedule: BMP 4.C. Erosion and Sediment Control Inspections: a) Initial Implementation Date: January 2014. b) Frequency: Inspections to occur after every ¾"; 24-hour rain event or at a minimum of once a month.</p> | |
| Permit Requirement (Part II.B.4.b.iv) | Procedures for construction site plan review and approval to include an evaluation of plan completeness and overall BMP effectiveness. |
| Program Objective: | The City will establish construction site plan review procedures, coordinated with a construction site permitting process, for developments in the City that meet the qualifying criteria. These procedures will create a process for QCI staff at the City to review Erosion & Sediment Control BMPs in the construction plans and ensure that they meet the requirements of the Alabama Handbook prior to issuance of the Land Disturbance Permit |

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| | (LDP) or the start of land disturbing activities. |
| <p>Program Description: BMP 3.D Site Plan Review: The City's Stormwater Management Ordinance requires all applicants for Land Disturbance Permits to submit a Erosion and Sediment Control Plan (ESCP). The ESCP must accurately describe the potential for soil erosion and sedimentation problems resulting from land disturbance activities and shall explain and illustrate the measures that will be taken to control these problems. The length and complexity of the plan is to be commensurate with the size of the project, severity of the site condition, and potential for offsite discharge and/or damage. The plan must be sealed by a registered professional engineer licensed in the State of Alabama. The plan must also conform to the requirements found in the Alabama Handbook. The City will not issue development permits until it establishes that the ESCP is consistent with these requirements.</p> | |
| <p>Implementation Schedule: BMP 4.D. Site Plan Review: a) Initial Implementation Date: The City already requires an ESCP for all applicants for LDP b) Frequency: ESCP will be reviewed for every qualifying construction project prior to issuance of a LDP.</p> | |
| <p>Permit Requirement (Part II.B.4.b. v)</p> | <p>Procedures to notify ADEM of non-compliant construction sites discovered during periodic inspections to include location, name, contact information and summary of site deficiencies of the construction site.</p> |
| <p>Program Objective:</p> | <p>The objective of this program is to ensure that ADEM is aware of all non-compliant construction sites so that they can initiate enforcement actions, as appropriate, to bring the site into compliance.</p> |
| <p>Program Description: BMP 4.E. ADEM Notification: The City will notify ADEM, by phone and/or email, of qualified, permitted construction sites where a possible violation of the Clean Water Act has occurred. The notification will include the following information: name of development, location, name of site operator/developer, contact information, a copy of the inspection form, and photographs of the suspected violations. The inspection checklist will also be forwarded to ADEM upon request. Possible violations could include, but are not limited to: releases of sediment to a Water of the State/U.S. and/or failure to adhere to the City's corrective action request following an inspection.</p> | |
| <p>Implementation Schedule: BMP 4.E. ADEM Notification: a) Initial Implementation Date: The City already implements this BMP. b) Frequency: Notification will be made whenever a violation is noted at a qualifying construction site.</p> | |
| <p>Permit Requirement (Part II.B.4.c.i)</p> | <p>If not relying on ADEM for the setting of standards for appropriate erosion controls and sediment controls for qualifying construction sites and for enforcement of such controls, then the Permittee must have requirements for construction site operators to implement appropriate sediment and erosion control BMPs consistent with the Alabama Handbook.</p> |

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| Program Objective: | The City utilizes the Alabama Handbook for Best Management Practices for Erosion and Sediment Control for the setting and enforcing of standards for appropriate erosion and sedimentation controls for qualifying construction sites. |
| Program Description: BMP 4.F. Alabama Handbook: The City has standardized the use of the Alabama Handbook for the design, construction and installation of proper erosion and sediment control BMPs for qualifying developments within the City by specifically referencing it in the Stormwater Ordinance. All ESCP for qualifying sites are required to comply with the standards in the Alabama Handbook. | |
| Implementation Schedule: BMP 4.F. Alabama Handbook: a) Initial Implementation Date: The City already recognizes the Alabama Handbook as the local standard for Erosion and Sediment Control. b) Frequency: Whenever site plans are reviewed and inspections are conducted, the Alabama Handbook shall be used as the standard. | |
| Permit Requirement (Part II.B.4.c. ii) | Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality. |
| Program Objective: | The objective of this program is to ensure that the City addresses all potential violations of the Clean Water Act on construction sites, not just those related to erosion or sedimentation. |
| Program Description: BMP 4.G. Construction Site Pollution Control: The City will update the Erosion and Sedimentation Control Regulations to include the following standards for construction site operators, "control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site." The City staff will look for these potential violations during site plan review and site inspections. | |
| Implementation Schedule: BMP 4.G. Construction Site Pollution Control: a) Initial Implementation Date: The City will adopt is updated Erosion & Sedimentation regulations by March 2015, and will update the site plan review. b) Frequency: All ESCP reviews and site inspections will address this requirement. | |
| Permit Requirement (Part II.B.4.c. iii) | Development and implementation of an enforcement strategy that includes escalating enforcement remedies to respond to issues of non-compliance. |
| Program Objective: | This program will ensure that the Erosion and Sediment Control Standards that are set by the Alabama Handbook are implemented on qualifying construction sites in the City of Anniston. This program objective will be achieved in conjunction with establishment of an Erosion and Sedimentation Control Ordinance. |

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| <p>Program Description: BMP 4.A. Erosion and Sedimentation Control Regulations: The City will review its current code and determine where updates need to be made to ensure that the City's ordinance meets the requirements of the NPDES Phase II MS4 permit.</p> <p>If necessary, the City's code will be updated to require that qualified construction projects implement appropriate erosion and sediment controls in accordance with ADEM's standards and the Alabama Handbook. The ordinance will provide the City with the authority to take escalating enforcement measures to include written warning letters, stop work orders and municipal fines. Enforcement procedures will vary based on the severity of the deficiencies. Minor concerns will receive a written or verbal warning requiring corrective action. If not corrected in the allotted timeframe or if there are major deficiencies, the City will then issue a stop work order for the construction site. Stop work orders will typically be issued on sites with active construction while BMP deficiencies still exist. Should deficiencies still remain, the City will notify ADEM per the program outlined in BMP 4.E ADEM Notification.</p> | |
| <p>Implementation Schedule: BMP 4.A. Erosion and Sedimentation Control Ordinance: a) Initial Implementation Date: Adopt updated Erosion and Sediment Control Ordinance by March 2015. b) Frequency: Perform review annually.</p> | |
| <p>Permit Requirement (Part II.B.4.c. iv)</p> | <p>Implement an enforcement tracking system designed to record instances of non-compliance and the MS4's responding actions.</p> |
| <p>Program Objective:</p> | <p>The objective of this program is to document that the City is implementing a compliant Erosion and Sediment Control Program, consistent with the requirements of the NPDES Phase II MS4 Permit.</p> |
| <p>Program Description: BMP 4.H. Enforcement Tracking Database: The City will maintain a database of all enforcement actions taken at all qualifying construction sites. This database will include the location and contact information for the site, types of enforcement actions taken, date of action, recommended remediation measures, dates of any follow-up inspections, dates of any correspondence with the site operator/developer, dates of any correspondence with ADEM and the nature of that correspondence.</p> | |
| <p>Implementation Schedule: BMP 4.H. Enforcement Tracking Database: a) Initial Implementation Date: Develop the Enforcement Tracking Database by March 2015. b) Frequency: Enter all enforcement actions into the database after they occur.</p> | |
| <p>Permit Requirement (Part II.B.4.d)</p> | <p>Must keep records of all inspections, site plan reviews and employee training.</p> |

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| Program Objective: | The objective of this program is to document that the City is implementing a compliant Erosion and Sediment Control Program, consistent with the requirements of the NPDES Phase II MS4 Permit. |
| Program Description: BMP 4.I. Erosion and Sediment Control Record Keeping: The City will maintain records of all inspection, site plan reviews and employee training. Records will include copies of the inspection checklist, records of the number of site plans reviewed and development permits issued, copies of employees QCI certifications, and records of any enforcement actions taken. | |
| Implementation Schedule: BMP 4.I. Erosion and Sediment Control Record Keeping: a) Initial Implementation Date: Begin maintaining any applicable records by April 2014. b) Frequency: Enter all applicable records after they occur. | |
| Decision Process: <i>(Part II.B.4.e)</i> | The Permittee must document the methodology for the development of a construction site storm water control program. The rationale statement must address the overall construction site storm water control program and the individual BMPs, measureable goals and responsible person(s) for the program. The rationale statement shall include the following information at a minimum: |
| The mechanism (ordinance or other regulatory mechanism) that is used to require erosion and sediment controls at construction sites and why this mechanism was chosen. (Part II.B.4.e.i). | |
| The City has adopted Erosion and Sediment Control regulations as part of the Stormwater Ordinance because it is the most effective method to establish the standards for Erosion and Sedimentation Control and to provide the City of Anniston the authority to inspect construction sites and enforce the standards, as necessary. | |
| A plan to ensure the compliance with the erosion and sediment control regulatory mechanism, including the sanctions and enforcement mechanisms that will be used to ensure compliance. (Part II.B.4.e.ii). | |
| The City will update its Erosion and Sediment Control regulations to provide the City with the authority to take escalating enforcement measures including written warning letters and stop work orders if construction sites do not comply with the requirements of the Alabama Handbook and ADEM. Enforcement procedures will vary based on the severity of the deficiencies. Minor concerns will receive a written or verbal warning requiring. If not corrected in the allotted timeframe or if there are major deficiencies, the City will then issue a stop work order on the construction site. Stop work orders will typically be issued on sites with active construction while BMP deficiencies still exist. Should deficiencies still remain, the City will notify ADEM per the program outlined in BMP 4.E ADEM Notification. | |
| The requirements for construction site operators to implement appropriate erosion and sediment control BMPs and control waste at construction sites that may cause adverse impacts to water quality. (Part II.B.4.e.iii). | |
| The City will update its Erosion and Sediment Control Regulations the following standard for construction site operators, "control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site." The City will also include this provision on the Erosion and Sediment Control checklist and in the requirements for the ESCP to ensure that City staff look for these potential violations during site plan review and site inspections. | |
| The procedures for plan review, including the review of pre-construction site plans, which incorporate consideration of potential water quality impacts. (Part II.B.4.e.iv). | |

Through the City's Stormwater Management Ordinance, the City requires review of ESCP as part of the development review process and ensure that these plans meet the requirements of the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas. The City will not issue development permits until it establishes that the ESCP are consistent with the Alabama Handbook. After land disturbing activities begin, the City will conduct inspection to ensure that BMPs on site are built and maintained consistent with the approved plan.

The procedures for receipt and consideration of information submitted by the public. (Part II.B.4.e.v).

When an erosion or sediment control complaint regarding a construction site is received, immediate action will be taken by the City to inspect, document and resolve the compliance issue using enforcement if needed. The complaints will be recorded in the Citizen Complaint database outlined in BMP 3.C.

The procedures for site inspections and enforcement control measures, including the process of prioritizing construction sites. (Part II.B.4.e.vi).

The City will establish an inspection program for construction sites in the City that meet the standards to be set in the City Erosion & Sediment Control Ordinance, i.e. total land disturbance of greater than or equal to one acre and activities that disturb less than one acre but are part of a larger common plan of development or sale that would disturb one acre or more. Sites will be inspected after each 3/4-inch, 24-hour rainfall event, or a minimum of once per month. Construction sites located adjacent to waterways will be prioritized for inspection.

The City will use ADEM Form 500 during each site inspection. During the inspection, all discharge points will be inspected and the site conditions will be compared to the approved erosion and sediment control plan. Any deficiencies noted will be reported to the site manager and/or the developer. The developer will be given a schedule to correct deficiencies noted during the inspection or face a stop work order until they are corrected. The City will not "close out" a development permit or issue a Certificate of Occupancy until all areas are permanently stabilized, all construction debris removed, and temporary sediment control structures removed. A final inspection is required prior to release from the permit.

Measurable Goals (Part II.B.4.e.viii):

BMP 4.A. Erosion and Sedimentation Control Regulations:

- a) Adopt the Ordinance by March 2015
- b) Review the ordinance annually and update as necessary

BMP 4.B. Qualified Credentialed Inspector (QCI) Program:

- a) All applicable City staff will receive QCI certification within one year of employment
- b) All applicable city staff will receive annual training to maintain their QCI certifications

BMP 4.C. Erosion and Sediment Control Inspections:

- a) Inspect all qualifying sites after rain events (as defined here-in) or monthly as a minimum. Complete checklist for each inspection.

BMP 4.D. Site Plan Review:

- a) Review ESCP for all qualifying sites and only issue a development permit after approval.

BMP 4.E. ADEM Notification:

- a) Notify ADEM for qualifying construction sites that violate the Clean Water Act.

BMP 4.F. Alabama Handbook:

- a) Ensure Erosion and Sediment Control BMPs on qualifying sites are compliant with the Alabama Handbook.

BMP 4.G. Construction Site Pollution Control:

- a) Ensure language in Erosion and Sediment Control Ordinance, to be adopted by March 2015, addresses

construction site pollution control.

BMP 4.H. Enforcement Tracking Database:

a) Record enforcement activities and maintain copies of all documents for 100% of enforcement actions in the Enforcement Tracking Database.

BMP 4.I. Erosion and Sediment Control Record Keeping

b) Maintain records for 100% of erosion and sediment control activities including inspections, site plan reviews, training, and citizen complaints in the Erosion and Sedimentation Control Database.

Responsible Party: Contact Information (Part II.B.4.e.vii)

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| Contact Name: | Kevin Ashley, City Engineer |
| Department: | City of Anniston Public Works Department |
| Address: | P.O. Box 2168, Anniston AL, 36202 |
| Phone: | 256-231-7750 |
| Email: | kashley@anniston.al.gov |

Supporting Information :

1. Stormwater Management Ordinance
2. ADEM Form 500

Reporting Mechanism :

BMP 4.A. Erosion and Sedimentation Control Regulations:

- a) Copy of the adopted Ordinance
- b) Copy of any future updated ordinances.

BMP 4.B. Qualified Credentialed Inspector (QCI) Program:

- a) Copies of Employee's certifications

BMP 4.C. Erosion and Sediment Control Inspections:

- a) Copies of the inspection checklists

BMP 4.D. Site Plan Review:

- a) Number of site plans reviewed and development permits issued

BMP 4.E. ADEM Notification:

- a) Copies/records of any communications with ADEM.

BMP 4.F. Alabama Handbook:

- a) Copy of the adopted Ordinance with applicable language

BMP 4.G. Construction Site Pollution Control:

- a) Copy of the adopted Ordinance with applicable language

BMP 4.H. Enforcement Tracking Database:

- a) Copy of Enforcement Tracking Database entries for the reporting period.

BMP 4.I. Erosion and Sediment Control Record Keeping:

- a) Copies of all Erosion and Sediment Control records for the reporting period.

**Storm Water Management Plan
 Minimum Control Measure #5 (Part II.B.5 of Permit)
 Post-Construction Storm Water Management in New Development and Redevelopment**

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| Post-Construction Storm Water Management in New Development and Redevelopment | |
| Permit Requirement <i>(Part II.B.5.a.i&ii)</i> | The Permittee must develop and implement project review, approval, and enforcement procedures for new development and redevelopment projects that disturb greater than one acre, and projects less than one acre that are part of a larger common pan of development or sale. Develop procedures for the following: site plan review and approval process; re-approval process when changes to post construction controls are required; process to demonstrate and document post-construction storm water measures have been installed properly to include enforceable procedures for noncompliant projects. |
| Program Objective: | <p>The City will implement a variety of BMPs to address post construction stormwater runoff during the next permit cycle. Potential benefits of effectively controlling post-construction stormwater runoff include: water quality improvements, minimization of stream erosion and effective control of potential flooding impacts. The primary target audiences within the City for our post-construction stormwater management program will be</p> <ul style="list-style-type: none"> • Developers, Contractors and Homebuilders: Responsible for development and construction activities that can potentially impact post-construction stormwater management. • Engineers: Responsible for designing post-construction stormwater management plans to effectively manage post-construction stormwater from new developments and redevelopments. <p>The City's post-construction stormwater management program is primarily designed to address stormwater pollution from nutrients, sediments, pathogens and other various pollutants.</p> |
| Program Description: The City will continue to implement their post construction program that includes: | |
| <ul style="list-style-type: none"> a) an ordinance that requires a stormwater management plan for new development and redevelopment to ensure that the volume and velocity of pre-construction stormwater meets applicable criteria. b) site plan review for stormwater management plans c) maintenance agreements for stormwater structural BMPs d) inspections of stormwater stuctural BMPs | |

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| Implementation Schedule: | |
| <p>a) Initial Implementation Date: The City adopted its ordinance in 2008 and has since been implementing a post-construction stormwater management program.</p> <p>b) Frequency: Site plan review and maintenance agreements occur for all qualifying land development projects.</p> | |
| Permit Requirement (Part II.B.5.b.) | Develop and implement strategies which include a combination of structural and/or non-structural BMPs designed to ensure, to the MEP, that the volume and velocity of pre-construction storm water runoff is not significantly exceeded. A design rainfall event with an intensity up to that of a 2yr-24hr storm event shall be the basis for the design and implementation of post-construction BMPs. |
| Program Objective: | The objective of this BMP is to ensure that stormwater runoff impacts from new construction or re-development projects site does not adversely impact the watershed. This BMP will require all qualifying development projects to prepare a stormwater management plan consistent with the specification recommended in the City's Stormwater Ordinance. |
| Program Description: | |
| <p>BMP 5.A. Stormwater Design Manual: The City adopted as its stormwater design and best management practices (BMP) manual in general accordance with the 2003 Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas, prepared by ADEM. The handbook is incorporated by reference into the City's Stormwater Management Ordinance. Furthermore, the Stormwater Ordinance includes performance criteria that require "All site designs shall control the peak flow rates of stormwater discharge associated with design storms of 2-year, 5-year, 10-year, 25-year, 50-year and 100-year intensity and reduce the generation of post construction stormwater runoff to pre-construction levels." The manual includes a list of acceptable BMPs including the specific design performance criteria and operation and maintenance requirements for each stormwater practice. The manual may be updated and expanded from time to time, at the discretion of the City, upon the recommendation of the chief building official, based on improvements in engineering, science, monitoring and local maintenance experience. Stormwater facilities that are designed, constructed and maintained in accordance with these BMP criteria are presumed to meet the minimum water quality performance standards.</p> | |
| Implementation Schedule: | |
| <p>BMP 5.A. Stormwater Design Manual: a) Initial Implementation Date: The City adopted the Alabama Handbook by reference in the Stormwater Ordinance in 2008. b) Frequency: All stormwater management plans for all qualifying development projects are required to implement structural and/or non-structural BMPs in compliance with the Alabama Handbook and the Stormwater Ordinance.</p> | |
| Permit Requirement (Part II.B.5.c.) | To extent allowable under State law, must develop and institute the use of an ordinance or other regulatory mechanism to address post-construction runoff from new development and re-development projects. |

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| <p>Program Objective:</p> | <p>The objective of this BMP is to ensure that new construction or re-development projects for a site do not adversely impact the hydrology of the watershed. This BMP will require all qualifying development projects to develop a stormwater management plan consistent with the specifications recommended in the City's Stormwater Ordinance.</p> <p>It is the purpose of Stormwater Ordinance to:</p> <p>a) Protect, maintain, and enhance the environment of the city and the public health, safety and the general welfare of the citizens of the city, by controlling discharges of pollutants to the city's stormwater system and to maintain and improve the quality of the receiving waters into which the stormwater outfalls flow, including, without limitation, lakes, rivers, streams, ponds, wetlands, and groundwater of the city.</p> <p>b) Enable the city to comply with the National Pollution Discharge Elimination System (NPDES) permit and applicable regulations, 40 CFR § 122.26, for stormwater discharges.</p> |
| <p>Program Description:</p> <p>BMP 5.B. Stormwater Management Ordinance:</p> <p>The City adopted a Stormwater Management Ordinance in 2008 that requires all development projects and re-development projects applying for a Land Disturbance Activity (LDA) permit to first submit a Stormwater Management Plan that illustrates how stormwater will be managed on-site, post-development. The ordinance adopts the Alabama Handbook as the BMP manual, established the required performance criteria for post-development peak flows and stream channel protection, and includes special requirements for sensitive areas and pollutant hot spot areas. The ordinance establishes the requirements for a Stormwater Management Plan and also requires Maintenance Agreements for post construction stormwater control BMPs. Furthermore, the ordinance establishes the site plan review and enforcement process.</p> <p>The City will review its current Stormwater Management Ordinance and determine where updates need to be made to ensure that the City's ordinance meets the requirements of the NPDES Phase II MS4 permit. The City's code will be updated to require that qualified construction projects implement appropriate post construction stormwater controls in accordance with ADEM's standards. The updated ordinance will include the standard that all land disturbing activities with a total land disturbance of greater than or equal to one acre and activities that disturb less than one acre, but are part of a larger common plan of development, or sale that would disturb one acre or more will be required to apply for a Land Disturbance Permit and will be required to meet applicable Post Construction Stormwater Control requirements.</p> | |
| <p>Implementation Schedule:</p> <p>BMP 5.B. Stormwater Design Manual:</p> <p>a) Initial Implementation Date: The City adopted the Stormwater Management Ordinance in 2008.</p> <p>b) Frequency: The City will review the ordinance annually and update it as necessary.</p> | |
| <p>Permit Requirement (Part II.B.5.d)</p> | <p>Must develop procedures for development site plan review and approval to ensure post-construction BMPs are addressed.</p> |
| <p>Program Objective:</p> | <p>The objective of this BMP is to ensure that new construction or re-development projects install post-construction BMPs as necessary and recommended in the Alabama Handbook to protect the hydrology and water quality of local waterways. All qualifying development projects prepare a stormwater management plan consistent with the specifications recommended in the City's Stormwater Ordinance. This BMP establishes a process for the City to review the stormwater management plans to ensure their consistency with local and</p> |

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| | State post construction requirements. |
| <p>Program Description: BMP 5.C. Site Plan Reivew: The City will perform site plan review of the stormwater managemnet plans for all development and redevelopment projects that apply for a Land Disturbance Activity (LDA) Permit. The stormwater management plans must include the information and materials as stipulated in the City Stormwater Management Ordinance. The site plan review process is established in the Stormwater Management Ordinance, and is generally as follows:</p> <p>The City will review each application for a land disturbance permit to determine its conformance with the provisions of this chapter. Within thirty (30) days after receiving an application, the city shall provide one (1) of the following responses in writing:</p> <ol style="list-style-type: none"> 1. Approval of the permit application; 2. Approval of the permit application, subject to such reasonable conditions as may be necessary to secure substantially the objectives of this chapter, and issue the permit subject to these conditions; or 3. Denial of the permit application, indicating the reason(s) for the denial. <p>If the City has granted conditional approval of the permit, the applicant shall submit a revised plan that conforms to the conditions established by the City. However, the applicant shall be allowed to proceed with his land disturbing activity so long as it conforms to conditions established by the City. No development plans will be released until the land disturbance permit has been approved.</p> | |
| <p>Implementation Schedule: BMP 5.C. Site Plan Review: a) Initial Implementation Date: This BMP has was implemented with the adoption of the ordinance in 2008. b) Frequency: The City will perform site plan reviews of the stormwater management plans for all development and redevelopment projects that submit an application for a LDA Permit.</p> | |
| <p>Permit Requirement (Part II.B.5.e)</p> | <p>Must ensure adequate long-term operation and maintenance of BMPs. The MS4 shall require maintenance agreement and provide verification of maintenance provisions of post-construction management practices. These agreements shall allow the MS4, or its designee, to conduct inspections of the management practices and also account for transfer of responsibility in leases and/or deed transfers.</p> |
| <p>Program Objective:</p> | <p>This program will ensure that structural BMPs designed and constructed in accordance with the requirements of the Stormwater Management Ordinance and Alabama Handbook, continue to function as designed and properly handle and treat post construction stormwater runoff flows. This BMP creates a mechanism whereby the City can require owners of Post Construction BMPs to maintain those BMPs. The City is provided the authority to inspect them and to enforce the requirements of Stormwater Management Ordinance and Alabama Handbook, if necessary.</p> |
| <p>Program Description: BMP 5.D. Maintenance Agreement: Section 29 1/2.5 4 (g) of the City Stormwater Management Ordinance requires that the owner of property to be served by an onsite stormwater management facility must execute an inspection and maintenance agreement that shall operate as a deed restriction binding on the current property owner and all subsequent property owners. The Maintenance Agreement must assign responsibility for the maintenance and repair of the stormwater facility to the owner of the property and provide for a periodic inspection by the property owner for the purpose of documenting</p> | |

maintenance and repair needs and ensure compliance. The Maintenance Agreement grants permission to the City to enter the property at reasonable times and to inspect the stormwater facility to ensure that it is being properly maintained. If maintenance is not conducted according to the plan set forth in the agreement, and the standards in the Handbook, the City is granted the right to perform the necessary maintenance and recoup the money from the property owner. This requirement applies to all structures built after the adoption of this ordinance.

BMP 5.E City-Owned Structural BMP Maintenance

The City will implement a routine structural BMP inspection and maintenance program to ensure that on-site stormwater management facilities, owned or operated by the City, are being maintained according to the recommendations in the Alabama Handbook. The City currently has two (2) Structural BMPs that it is responsible for maintaining. If deficiencies are noted during the inspection, the City will initiate maintenance procedures. The City will maintain records of the inspection and maintenance activities.

Implementation Schedule:

BMP 5.D. Maintenance Agreements:

a) Initial Implementation Date: This City adopted the requirement for Maintenance Agreements with its Stormwater Management Ordinance in 2008. The City will perform a GPS Inventory and condition assessment of the structural BMPs by March 2016. Inspections of the structural BMPs that were prioritized based on the condition assessment will begin thereafter.

b) Frequency: The City will require maintenance agreements for all applicable development projects applying for a land disturbance activity permit. The City will perform inspections of prioritized BMPs on an annual basis.

BMP 5.E. City-Owned Structural BMP Maintenance

a) Initial Implementation Date: The City will develop an inspection procedure/checklist for inspecting City owned BMPs in April 2014.

b) Frequency: The City will inspect (2) two structural BMPs per year and maintain as needed.

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| Permit Requirement (Part II.B.5.f) | Shall review and evaluate policies and ordinances related to building codes, or other local regulations, with a foal of identifying regulatory and policy impediments to the installation of green infrastructure and low-impact development techniques. |
| Program Objective: | The purpose of this program is review the City's codes and ordinances to ensure that they do not prohibit this use of green infrastructure practices such as infiltration, stormwater reuse, and evapotranspiration. The City's Stormwater Management Ordinance already encourages green infrastructure techniques by having requirements for infiltration and stormwater volume control; however, other City codes may have requirements that work against this approach. The City will review these codes and make recommendations for necessary changes to support green infrastructure within the City of Anniston. |

Program Description:

BMP 5.F. Green Infrastructure Ordinance Review:

The City shall review and revise, where necessary, building codes, ordinances, and other regulations to ensure they do not prohibit or impede the use of Green Infrastructure/Low Impact Development (GI/LID) practices, including infiltration, reuse, and evapo-transpiration. The City intends to utilize the Center for Watershed Protection's Code and Ordinance Worksheet to perform this review. The Code and Ordinance Worksheet allows an in-depth review of the standards, ordinances, and codes (i.e., the development rules) that shape how development occurs in a community.

The worksheet consists of a series of questions that correspond to each of the model development principles, including Green Infrastructure. Points are assigned based on how well the current development rules agree with the site planning benchmarks derived from the model development principles. Based on the results of this assessment,

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| <p>the City will identify which codes, if any, need to be updated/modified to allow for implementation of GI/LID practices.</p> <p>The City will complete the initial evaluation by January 2016 and will submit a copy to ADEM with the subsequent annual report. Any recommended revisions to local ordinances and codes will be scheduled for adoption after the completion of this review.</p> | |
| <p>Implementation Schedule: BMP 5.F. Green Infrastructure Ordinance Review a) Initial Implementation Date: The City will perform this review by January 2016. b) Frequency: N/A.</p> | |
| <p>Decision Process: (Part II.B.4.e)</p> | <p>The Permittee must document the decision process for the development of a post-construction storm water program. The rationale statement must address the overall post-construction storm water program and the individual BMPs, measurable goals and responsible person(s) for the program. The rationale statement shall include the following information at a minimum:</p> |
| <p>The program to address storm water runoff from new development and redevelopment projects and include any specific priority areas. (Part II.B.5.g.i).</p> | |
| <p>The City is addressing stormwater runoff from new development and redevelopment projects through the use of the Stormwater Management Ordinance, which identifies the Alabama Handbook as the local BMP manual, requires the preparation of stormwater management plans for qualifying new development and redevelopment projects, establishes a site plan review process, and sets standards and a process for the long term maintenance of structural stormwater BMPs. BMPs that address this issue include BMP 5.A. Stormwater Design Manual, BMP 5.B. Stormwater Management Ordinance, BMP 5.C. Site Plan Review, BMP 5.D. Maintenance Agreement .</p> | |
| <p>How the program will be specifically tailored to the local community, minimize water quality impacts, and attempt to maintain predevelopment runoff conditions. (Part II.B.5.g.ii).</p> | |
| <p>The City has achieved this requirements through adoption of the Alabama Handbook as a stormwater design manual. This manual contains post-construction BMP recommendations, design specifications, and maintenance requirements for stormwater management plans and facilities that are appropriate for Alabama. The BMPs recommended in the manual are designed to address both water quantity and water quality. The City's Stormwater Management Ordinance also has specific requirements to maintain pre-development stormwater runoff conditions and to achieve the water quality standards specified in the Alabama Handbook. Furthermore, the City will perform a review of its codes to identify and remove any impediments to GI/LID approaches to stormwater management, which is intended to address stormwater volume and quality issues not addressed through more traditional stormwater management practices.</p> | |
| <p>Any non-structural BMPs in the program to include (Part II.B.5.g.iii):</p> <ul style="list-style-type: none"> • Policies and ordinances to provide requirements and standards to direct growth to identified areas, protect sensitive areas, maintain and/or increase open space, provide buffers along sensitive water bodies, minimize impervious surfaces, and minimize disturbance of soils and vegetation. • Policies and ordinances that encourage infill development in higher density urban areas, and areas with existing storm sewer infrastructure. • Education programs for developers and the public about project designs that minimize water quality impacts. • Other measures such as: minimization of the percentage of impervious areas after development, and source control measures often thought as good housekeeping, preventative maintenance and spill prevention. | |
| <p>The City has an Urban Revitalization Ordinance that provides a procedure and adopts a plan to encourage redevelopment and infill development in blighted areas of the City. By encouraging redevelopment of previously developed areas, the City is able ensure that post-construction stormwater runoff is addressed according to current standards. Furthermore, the City is encouraging redevelopment of already urbanized areas as opposed to the development of land in its natural conditions.</p> | |

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| <p>The City also has a Flood Damage Prevention Ordinance which limits development in the floodplains, which are also the riparian areas of local waterways.</p> |
| <p>Any structural BMPs in the program, including, as appropriate (Part II.B.5.g.iv):</p> <ul style="list-style-type: none"> • Storage practices such as wet ponds, and extended-detention outlet structures. • Filtration practices such as grassed swales, bioretention cells, sand filters and filter strips. • Infiltration practices such as infiltration basin and infiltration trenches. |
| <p>The City has adopted the Alabama Handbook as its Stormwater Design Manual, and this guidebook contains the recommended Structural BMPs for the City of Anniston. The recommendations for BMPs are further defined within the City's Stormwater Management Ordinance as follows: "Stormwater runoff shall be controlled to prevent pollution of local waters. Current control measures may include, but are not limited to, the following:</p> <ol style="list-style-type: none"> 1. Ponds: a) Detention pond, b) Extended detention pond, c) Wet pond, d) Alternative storage measures. 2. Constructed wetlands 3. Infiltration systems: a) Infiltration/percolation trench, b) Infiltration basin, c) Drainage (recharge) well, d) Porous pavement 4. Filtering systems: a) Bio-retention area/rain garden, b) Catch basin inserts/media filter c) Sand filter d) Filter/absorption bed, and e) Filter and buffer strips 5. Open channel: a) Swale |
| <p>The mechanisms (ordinance or other regulatory mechanism), will address post-construction runoff from new development and re-developments and rationale for that mechanism. (Part II.B.5.g.v).</p> |
| <p>BMP 5.B. Stormwater Management Ordinance describes the regulatory mechanism the City will use to address post construction runoff from development and re-development projects. The City has chosen to use an ordinance because it provides the City with the authority necessary to implement the standards and take enforcement actions when the ordinance is violated.</p> |
| <p>How you will ensure the long-term operation and maintenance of the selected BMPs. (Part II.B.5.g.vi).</p> |
| <p>BMP 5.D. Maintenance Agreements describes the City's adopted process to ensure the long term operation and maintenance of privately owned/maintained BMPs. BMP 5.E. City-Owned Structural BMP Maintenance: The City will initiate an inspection and maintenance program of City-owned/operated BMPs.</p> |
| <p>Measurable Goals (Part II.B.5.g.vii):</p> <p>BMP 5.A. Stormwater Design Manual: a) Review all stormwater management plans for compliance with the Alabama Handbook.</p> <p>BMP 5.B. Stormwater Management Ordinance: a) Review ordinance annually. b) Update ordinance as needed.</p> <p>BMP 5.C. Site Plan Review: a) Review and approve stormwater management plans for all qualifying development projects in accordance with the requirements of the Stormwater Management Ordinance.</p> <p>BMP 5.D. Maintenance Agreement: a) Require a maintenance agreement for all structural BMPs on qualifying developments. b) Perform condition assessment of structural BMPs as part of Storm Sewer Map BMP by April 2016. c) Prioritize BMPs for inspection and develop schedule for inspections by April 2016 d) Perform annual inspections beginning in 2016.</p> <p>BMP 5.E. City-Owned Structural BMP Maintenance</p> |

a) Inspect two (2) City owned/operated structural BMPs per year.

BMP 5.F. Green Infrastructure Ordinance Review:

- a) Perform ordinance review with the CWP Ordinance Review Checklist by March 2015
- b) Update ordinances based on the results of the CWP Checklist as needed.

Responsible Party: Contact Information :

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| Contact Name: | Kevin Ashley, City Engineer |
| Department: | City of Anniston Public Works Department |
| Address: | P.O. Box 2168, Anniston AL, 36202 |
| Phone: | 256-231-7750 |
| Email: | kashley@anniston.al.gov |

Supporting Information :

Stormwater Management Ordinance

Reporting Mechanism :

BMP 5.A. Stormwater Design Manual:

- a) If the City adopts new standards or a new Stormwater Design Manual, that document shall be submitted to ADEM.

BMP 5.B. Stormwater Management Ordinance:

- a) The City will perform an annual review of the ordinance. If changes are made, the updated ordinance will be submitted to ADEM.

BMP 5.C. Site Plan Review:

- a) The number of sites plans reviewed and approved during the permit period.

BMP 5.D. Maintenance Agreement:

- a) A copy of any new maintenance agreements shall be submitted.
- b) A summary of the condition assessment with the BMPs prioritized for inspections identified.
- c) A schedule for inspections of the BMPs and copies of any inspection reports for BMPs inspected during the reporting period.

BMP 5.E. City Owned/Operated Structural BMP Maintenance:

- a) A copy of the inspection checklists.

BMP 5.F. Green Infrastructure Ordinance Review:

- a) A copy of the CWP Ordinance Review Checklist when completed.
- b) A copy of any newly adopted or updated ordinances based on the results of the checklist.

**Storm Water Management Plan
Minimum Control Measure #6 (Part II.B.6 of Permit)
Pollution Prevention/Good Housekeeping for Municipal Operations**

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| Pollution Prevention/Good Housekeeping for Municipal Operations | |
| <i>Permit Requirement (Part II.B.6.a.)</i> | The Permittee must develop and implement a program for pollution prevention/good housekeeping for municipal operations. |
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| <i>Program Objective:</i> | The City has implemented a program intended to reduce stormwater pollution and promote good housekeeping measures in municipal operations during the first permit cycle. The City will continue to expand upon and improve this program during the next permit cycle. Potential benefits from an effective pollution prevention/good housekeeping program for municipal operations include: reduced stormwater pollution from municipal operations and increased employee awareness regarding the effect of their daily activities on stormwater quality and quantity. The primary target audiences within the City for the pollution prevention/good housekeeping program for municipal operations, and the rationale for selecting these audiences, are City Employees who are responsible for daily municipal operations. Examples of impacts could include: how to properly dispose of waste, petroleum products, paints, chemicals and other potentially hazardous products. |
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| <i>Program Description:</i> The City will implement the following BMPs as part of its municipal good housekeeping measures: | |
| <p>BMP 6.A. City Facility Inspections: City staff will perform an annual stormwater site inspection for City facilities with potentially polluting activities during this permit period. The nine (9) municipal facilities that will be inspected are the two (2) Public Works facilities, five (5) Fire Stations, and two (2) Parks and Recreation facilities.</p> <p>A City inspector will visit the site and assess the condition and presence of pollutants of the areas listed below. A standardized Site Stormwater Inspection checklist shall be used to record the inspection results.</p> <ul style="list-style-type: none"> • Areas around machinery and/or equipment • Areas prone to leaks and spills • Outdoor sediment and materials storage and handling areas • Waste generation, storage, treatment and disposal areas • Vehicle wash-down areas • Fueling areas • Loading and unloading areas | |

BMP 3.H. City Employee Training:

The employee good housekeeping training program will be coordinated with the training program for IDDE included in MCM 3.

The City of Anniston will provide information on illicit discharges and how to prevent stormwater pollution in the work place for staff that deal with potentially polluting materials as part of their daily activities. The City will first identify appropriate materials, including, but necessarily limited to brochures, training videos, and outside training courses. The City will then initiate an annual training session to be held in association with other Public Works training and/or meetings. The City will keep records of the employees that attend this training and the materials that were distributed. Alternatively, the City may opt to send employees to another applicable training program, conference or seminar.

BMP 6.B De-Icing Program:

De-icing is not a significant activity in this region, and the City of Anniston does not stockpile large quantities of materials for deicing. Any bulk material, such as sand and aggregate, is protected onsite by a three (3) foot retaining wall with sediment ponds installed to allow for settling of any materials that may inadvertently enter the stormwater system. When de-icing is necessary, the City attempts to limit the use of road salts and use a sand/calcium chloride mixture, when possible. Calcium Chloride is in #50 sealed bags inside the City's warehouse. Any excess materials that may accumulate in any part of the stormwater system as a result of de-icing activities will be removed during the associated routine maintenance program.

BMP 6.C Street Sweeping:

The City has developed a program to keep litter and debris from being washed from the City's roadways into the MS4. This program consists of street sweeping within residential and commercial areas that have curb and gutter. The City performs street sweeping on a continuous, daily basis, and reaches all City streets with curb and gutter every year.

BMP 6.D MS4 Maintenance Program:

The City performs the following maintenance functions to ensure proper functioning of the MS4:

- a) Right-Of-Way (ROW) Maintenance: The City has a crew dedicated to maintenance of the City ROWs. This includes removal of debris and sediment from catch basins, inlets, and ditches; removal of litter and mowing in the ROWs; grading of ditches; and condition assessments of drainage structures. Structures that need repair or replacement are entered into the work order database system. The crew reaches all ROW in the City at least once per year. Debris removed from the MS4 is properly disposed of and sediment is re-purposed after any trash or litter is removed.
- b) Leaf removal: The City has a dedicated crew for leaf removal that is continuously operating during the months of October to April. This crew operates leaf vacuum machines that remove leaves from the MS4 including storm drains, inlets, ditches, etc. The City crews address the entire MS4 approximately three (3) times per year.

BMP 6.E. Water Quality Impact Assessment:

The City of Anniston operates a Capital Improvement Program to address structural flood management and drainage issues. As part of this program, the City identifies the various drainage and flooding problems within its jurisdiction and develops a proposed engineered solution to the problem in the form of a Capital Improvement Project (CIP). CIPs may include the installation of a new structure or the retrofit, upgrade, or replacement of an existing, inadequate structure. To that end, the City will conduct a water quality impact assessment during the design phase of 100% of drainage and flooding related CIPs, as funding becomes available for their implementation. This assessment will be integrated with the City's current Capital Improvement Program such that as identified projects are funded for implementation, a water quality assessment will be performed during the design phase. The assessment must be completed before the design of any drainage CIP has been completed. The assessment will ensure that the drainage or flood-related CIP addresses the following:

- A description of how the proposed CIP meets the water quality standards in the City Stormwater Management Ordinance and the Alabama Handbook;
- A description of potential water quality impacts from the proposed CIP and recommendation for mitigation of any impacts;
- The feasibility and/or cost of incorporating water quality enhancements in the CIP;

- Identification of the regulatory permits needed to construction the project including, but not limited to: NPDES construction permit and a Section 404 permit.

This assessment for each new CIP design will become a permanent part of the CIP file.

Implementation Schedule:

BMP 6.A. City Facility Inspections:

- a) Initial Implementation Date: City will begin performing inspections in April 2014.
- b) Frequency: Annual

BMP 3.H: City Employee Training:

- a) Initial Implementation Date: Identify education materials and develop procedure for training by March 2015.
- b) Frequency: Annual - provide training/education for applicable Public Works employees annually.

BMP 6.B: De-Icing Program:

- a) Initial Implementation Date: This program will be implemented in April 2014
- b) Frequency: As storm events dictate.

BMP 6.C. Street Sweeping:

- a) Initial Implementation Date: This program is ongoing.
- b) Frequency: Street sweeping will be performed continuously, reach all curb and gutter streets annually.

BMP 6.D. MS4 Maintenance Program:

- a) Initial Implementation Date: This program is ongoing.
- b) Frequency: The ROW crew will remove sediment, debris and litter from the MS4 once per year. The Leaf Removal crew will remove leaves from the MS4 three times per year.

BMP 6.E. Water Quality Impact Assessment:

- a) Initial Implementation Date: April 2014.
- b) Frequency: As CIP are identified for implementation and funded.

**Decision Process:
(Part II.B.6.c.)**

The Permittee must document the methodology for the development of a prevention/good housekeeping program for municipal operations. The rationale statement must address the overall prevention/good housekeeping program and the individual BMPs, measureable goals and responsible person(s) for the program. The rationale statement shall include the following information at a minimum:

The operation and maintenance program to prevent or reduce pollutant runoff from the Permittee's municipal operations. The program should list the municipal operations and industrial activities that are impacted by this operation and maintenance program. (Part II.B.6.c.i).

The City's municipal functions that are affected by this program are related to Public Works, specifically:

- a) Operation of the Public Works facilities including: storage of sediment and materials on-site and the maintenance of vehicles and equipment;
- b) De-Icing activities;
- c) Removal of pollutants from streets and right-of-ways including: street sweeping and litter pick up.

The City does not have a municipal wastewater or water operation.

Any government employee training program that is used to prevent and reduce the storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance. Describe any existing, available materials that will be used. Describe how this training program will be coordinated with the outreach programs developed for the public information minimum measure and the illicit discharge minimum measure (Part II.B.6.c.ii).

The City of Anniston will provide information on illicit discharges and how to prevent stormwater pollution in the work place for City staff that deal with potentially polluting materials as part of their daily activities. The City will first identify appropriate materials, including, but not necessarily limited to brochures, training videos, and outside training courses. The City will then initiate an annual training session to be held in association with other Public Works training and/or meetings. The City will keep records of the employees that attend this training and the materials that were distributed. Alternatively, the City may opt to send employees to another applicable training program, conference or seminar.

The City will implement the following BMPs as part of its municipal good housekeeping measures:

BMP 6.A. City Facility Inspections:

City staff will perform an annual stormwater site inspection for the following City facilities during this permit period. The nine (9) municipal facilities that will be inspected include Public Works, the Fire Department, and Parks and Recreation.

The employee good housekeeping training program shall be coordinated with the training program for IDDE included in MCM 3. The program shall include maintenance activities, schedules and long-term inspection procedures for controls to reduce floatables and other pollutants to the MS4.

The program shall address the following at a minimum (Part II.B.6.c.iii):

- Maintenance activities, maintenance schedules, and long-term inspection procedures for controls to reduce floatables and other pollutants to the MS4.
- Controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, recycling collection centers, fleet or maintenance shops with outdoor storage areas, salt/sand storage locations, and snow disposal areas operated by the MS4.
- Procedures for the proper disposal of waste removed from the MS4 and the municipal operations, including materials such as dredge spoil, accumulated sediments, floatables, and other debris.
- Procedures to ensure that new flood management projects are assessed for impacts on water quality and existing projects are assessed for incorporation of additional water quality protection devices or practices.

The BMPs included in this MCM address the requirements above. All BMPs include a description of various maintenance activities related to municipal functions and activities, and include schedules and procedures for these activities. BMP 6.C Street Sweeping and BMP 6.D MS4 Maintenance outlines the City's BMP for reducing or eliminating discharges from streets, roads, etc. as well as removing potential pollutants from the MS4. In addition, BMP 6.A. City Facility Inspections will ensure that good housekeeping measures are in place at municipal facilities and that there are no discharges from storage areas. The City has outlined its De-Icing Procedures to reduce discharges of saline during winter storm events in BMP 6.B De-Icing Program. BMP 6.E. Water Quality Impact Assessment outlines the City procedures to ensure that new and retrofit flood management projects address water quality impacts during the design phase. All wastes removed from the MS4 during any of the functions and activities described above are properly disposed of so as to prevent these wastes from re-entering the MS4 system.

Measurable Goals (Part II.B.6.c.v.):

BMP 6.A. City Facility Inspections:

- a) Inspect identified facilities annually.

BMP 3.H: Highly Visible Pollutant Education:

- a) Hold Annual Training Sessions by 2015

BMP 6.B. De-Icing Program:

- a) Use sand/reduce chloride use when possible
b) Remove excess de-icing materials from MS4 and dispose of properly.

BMP 6.C. Street Sweeping and Litter Pick Up:

- a) Sweep curb and gutter streets once per year.

| | |
|--|--|
| <p>BMP 6.D. MS4 Maintenance Program:</p> <p>a) Remove sediment, debris and litter from the MS4 once per year.</p> <p>b) Remove leaves from the MS4 three times per year.</p> | |
| <p>BMP 6.E. Water Quality Impact Assessment:</p> <p>a) Perform water quality impact assessment for all new and retrofit drainage CIPs .</p> | |
| <p><i>Responsible Party: Contact Information (Part II.B.6.c.v.):</i></p> | |
| Contact Name: | Kevin Ashley, City Engineer |
| Department: | City of Anniston Public Works Department |
| Address: | P.O. Box 2168, Anniston AL, 36202 |
| Phone: | 256-231-7750 |
| Email: | kashley@anniston.al.gov |
| <p><i>Supporting Information :</i></p> | |
| <p>1. City Facility Inspection Checklist</p> | |
| <p><i>Reporting Mechanism :</i></p> | |
| <p>BMP 6.A. City Facility Inspections:</p> <p>a) Inspection checklists</p> | |
| <p>BMP 3.H: Highly Visible Pollutant Education:</p> <p>a) Number of employees trained</p> <p>b) Copies of any training materials</p> | |
| <p>BMP 6.B. De-Icing Program:</p> <p>a) List of weather events where de-icing was necessary</p> <p>b) Description of activities to reduce chlorides</p> | |
| <p>BMP 6.C. Street Sweeping and Litter Pick Up:</p> <p>a) Records of miles of streets swept</p> <p>b) Number of miles of right-of-ways where litter pick up took place and the frequency of the action</p> | |
| <p>BMP 6.D. MS4 Maintenance Program:</p> <p>a) Records of any maintenance that has occurred in the MS4</p> | |
| <p>BMP 6.E. Water Quality Impact Assessment:</p> <p>a) Summary of any assessments that were performed during the reporting period</p> | |

*DISCLAIMER: Please note that there are other permit requirements within the MS4 Phase II General Permit that must be adhered to and it is the responsibility of the Permittee to be in compliance with all the permit requirements.

Appendix A: Stormwater Management Ordinance

Chapter 29½ STORMWATER MANAGEMENT REGULATION

Chapter 29½ STORMWATER MANAGEMENT REGULATION

[Sec. 29½.1. General provisions.](#)

[Sec. 29½.2. Definitions.](#)

[Sec. 29½.3. Land disturbance permits.](#)

[Sec. 29½.4. Waivers.](#)

[Sec. 29½.5. Stormwater system design and management standards.](#)

[Sec. 29½.6. Post construction.](#)

[Sec. 29½.7. Existing locations and developments.](#)

[Sec. 29½.8. Illicit discharges.](#)

[Sec. 29½.9. Enforcement.](#)

[Sec. 29½.10. Penalties.](#)

[Sec. 29½.11. Appeals.](#)

Sec. 29½.1. General provisions.

(1) *Purpose.* It is the purpose of this chapter to:

- (a) Protect, maintain, and enhance the environment of the city and the public health, safety and the general welfare of the citizens of the city, by controlling discharges of pollutants to the city's stormwater system and to maintain and improve the quality of the receiving waters into which the stormwater outfalls flow, including, without limitation, lakes, rivers, streams, ponds, wetlands, and groundwater of the city.
- (b) Enable the city to comply with the National Pollution Discharge Elimination System (NPDES) permit and applicable regulations, 40 CFR § 122.26, for stormwater discharges.
- (c) Allow the city to exercise the powers granted in Code of Ala. 1975, §§ 11-89C-1 et seq., pursuant to Act No. 97-931.

(2) *Administering entity.* The departments and engineering and public works of the city shall administer the provisions of this chapter.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Sec. 29½.2. Definitions.

For the purpose of this chapter, the following definitions shall apply. Words used in the singular shall include the plural, and the plural shall include the singular. Words used in the present tense shall include the future tense. The word "shall" is mandatory and not discretionary. The word "may" is permissive. Words not defined in this section shall be construed to have the meaning given by common and ordinary use.

As built plans means drawings depicting conditions as they were actually constructed.

Best management practices or *BMPs* are physical, structural, and/or managerial practices that, when used singly or in combination, prevent or reduce pollution of water, that have been approved by the city, and that have been incorporated by reference into this chapter as if fully set out therein.

Chapter 29½ STORMWATER MANAGEMENT REGULATION

Channel means a natural or artificial watercourse with a definite bed and banks that conducts flowing water continuously or periodically.

Community water means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wetlands, wells and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the city.

Contaminant means any physical, chemical, biological, or radiological substance or matter in water.

Design storm event means a hypothetical storm event, of a given frequency interval and duration, used in the analysis and design of a stormwater facility.

Discharge means dispose, deposit, spill, pour, inject, seep, dump, leak or place by any means, or that which is disposed, deposited, spilled, poured, injected, seeped, dumped, leaked, or placed by any means including any direct or indirect entry of any solid or liquid matter into the municipal separate storm sewer system.

Easement means an acquired privilege or right of use or enjoyment that a person, party, firm, corporation, city or other legal entity has in the land of another.

Erosion means the removal of soil particles by the action of water, wind, ice or other geological agents, whether naturally occurring or acting in conjunction with or promoted by anthropogenic activities or effects.

Erosion and sediment control plan means a written plan (including drawings or other graphic representations) that is designed to minimize the accelerated erosion and sediment runoff at a site during construction activities.

Hot spot (priority area) means an area where land use or activities generate highly contaminated runoff, with concentrations of pollutants in excess of those typically found in stormwater.

Illicit connection means illegal and/or unauthorized connections to the municipal separate stormwater system whether or not such connections result in discharges into that system.

Illicit discharge means any discharge to the municipal separate storm sewer system that is not composed entirely of stormwater and not specifically exempted under.

Land-disturbing activity means any activity that results in a change in the existing soil cover (both vegetative and nonvegetative) and/or the existing soil topography on property. Land-disturbing activities include, but are not limited to, development, redevelopment, demolition, construction, reconstruction, clearing, grading, filling, and excavation.

Maintenance means any activity that is necessary to keep a stormwater facility in good working order so as to function as designed. Maintenance shall include complete reconstruction of a stormwater facility if reconstruction is needed in order to restore the facility to its original operational design parameters. Maintenance shall also include the correction of any problem on the site property that may directly impair the functions of the stormwater facility.

Maintenance agreement means a document recorded in the land records that acts as a property deed restriction, and which provides for long-term maintenance of stormwater management practices.

Municipal separate storm sewer system (MS4) (Municipal separate stormwater system) means the conveyances owned or operated by the city for the collection and transportation of stormwater, including the roads and streets and their drainage systems, catch basins, curbs, gutters, ditches, man-made channels, and storm drains.

National Pollutant Discharge Elimination System permit or NPDES permit means a permit issued pursuant to [33](#) U.S.Code §1342.

Offsite facility means a structural BMP located outside the subject property boundary described in the permit application for land development activity.

Chapter 29½ STORMWATER MANAGEMENT REGULATION

Onsite facility means a structural BMP located within the subject property boundary described in the permit application for land development activity.

Peak flow means the maximum instantaneous rate of flow of water at a particular point resulting from a storm event.

Person means any and all persons, natural or artificial, including any individual, firm or association and any municipal or private corporation organized or existing under the laws of this or any other state or country.

Priority area means a hot spot.

Runoff means that portion of the precipitation on a drainage area that is discharged from the area into the municipal separate stormwater system.

Sediment means solid material, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

Sedimentation means soil particles suspended in stormwater that can settle in stream beds and disrupt the natural flow of the stream.

Soils report means a study of soils on a subject property with the primary purpose of characterizing and describing the soils. The soils report shall be prepared by a qualified soils engineer, who shall be directly involved in the soil characterization either by performing the investigation or by directly supervising employees.

Stabilization means providing adequate measures, vegetative and/or structural, that will prevent erosion from occurring.

Stormwater means stormwater runoff, snow melt runoff, surface runoff, street wash waters related to street cleaning or maintenance, infiltration and drainage.

Stormwater management means the programs to maintain quality and quantity of stormwater runoff to predevelopment levels.

Stormwater management facilities means the drainage structures, conduits, ditches, combined sewers, sewers, and all device appurtenances by means of which stormwater is collected, transported, pumped, treated or disposed of.

Stormwater management plan means the set of drawings and other documents that comprise all the information and specifications for the programs, drainage systems, structures, BMPs, concepts and techniques intended to maintain or restore quality and quantity of stormwater runoff to predevelopment levels.

Stormwater runoff means flow on the surface of the ground, resulting from precipitation.

Structural BMPs means devices that are constructed to provide control of stormwater runoff.

Surface water means and includes waters upon the surface of the earth in bounds created naturally or artificially including, but not limited to, streams, other water courses, lakes and reservoirs.

Watercourse means a permanent or intermittent stream or other body of water, either natural or manmade, which gathers or carries surface water.

Watershed means all the land area that contributes runoff to a particular point along a waterway.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Chapter 29½ STORMWATER MANAGEMENT REGULATION

Sec. 29½.3. Land disturbance permits.

- (1) *When required.* Every person will be required to obtain a land disturbance permit from the city unless
 - (a) the activity disturbs less than one-half (½) acre of land and/or the area of land disturbed is less than fifty (50) percent of the overall lot size. A land disturbance permit is required for all land disturbance activity, regardless of the size of the area disturbed, which occurs within the CBD-1 zone or in an area of special flood hazard as defined in [section 11½](#); of this Code.
- (2) *Building permit.* No building permit shall be issued until the applicant has obtained a land disturbance permit where the same is required by this chapter.
- (3) *Exemptions.* The following activities are exempt from the permit requirement:
 - (a) Any emergency activity that is immediately necessary for the protection of life, property, or natural resources.
 - (b) Existing nursery and agricultural operations conducted as a permitted main or accessory use.
 - (c) Any logging or agricultural activity that is consistent with an approved farm conservation plan or a timber management plan prepared or approved by the Environmental Protection Agency or the state department of environmental management.
 - (d) Additions or modifications to existing single family structures.
- (4) *Application for a land disturbance permit.*
 - (a) Each application shall include the following:
 1. Name of applicant;
 2. Business or residence address of applicant;
 3. Name, address and telephone number of the owner of the property of record in the office of the assessor of property;
 4. Address and legal description of subject property including the tax reference number and parcel number of the subject property;
 5. Name, address and telephone number of the contractor and any subcontractor(s) who shall perform the land disturbing activity and who shall implement the erosion and sediment control plan;
 6. A statement indicating the nature, extent and purpose of the land disturbing activity including the size of the area for which the permit shall be applicable and a schedule for the starting and completion dates of the land disturbing activity.
 7. Where the property includes a sinkhole, the applicant shall obtain from the state department of environmental management appropriate permits.
 8. The applicant shall obtain from any other state or federal agency any other appropriate environmental permits that pertain to the property. However, the inclusion of those permits in the application shall not foreclose the city from imposing additional development requirements and conditions, commensurate with this chapter, on the development of property covered by those permits.
 - (b) Each application shall be accompanied by:
 1. A sediment and erosion control plan;
 2. A stormwater management plan;

Chapter 29½ STORMWATER MANAGEMENT REGULATION

3. Each application for a land disturbance permit shall be accompanied by payment of land disturbance permit of twenty-five dollars (\$25.00) and such other stormwater management fees as may be set by resolution.
- (5) *Review and approval of application.*
- (a) The city will review each application for a land disturbance permit to determine its conformance with the provisions of this chapter. Within thirty (30) days after receiving an application, the city shall provide one (1) of the following responses in writing:
 1. Approval of the permit application;
 2. Approval of the permit application, subject to such reasonable conditions as may be necessary to secure substantially the objectives of this chapter, and issue the permit subject to these conditions; or
 3. Denial of the permit application, indicating the reason(s) for the denial.
 - (b) If the city has granted conditional approval of the permit, the applicant shall submit a revised plan that conforms to the conditions established by the city. However, the applicant shall be allowed to proceed with his land disturbing activity so long as it conforms to conditions established by the city.
 - (c) No development plans will be released until the land disturbance permit has been approved.
- (6) *Permit duration.* Every land disturbance permit shall expire and become null and void if substantial work authorized by such permit has not commenced within one hundred eighty (180) calendar days of issuance, or is not complete within eighteen (18) months from the date of the commencement of construction.
- (7) *Notice of construction.* The applicant must notify the city ten (10) working days in advance of the commencement of construction. Regular monthly inspections of the stormwater management system construction shall be conducted by a QCI (qualified credentialed inspector) provided by the contractor. Erosion control measures shall be inspected according to program requirements after any rainfall event in excess of three-quarters ($\frac{3}{4}$) of an inch during a twenty-four-hour period. All inspections shall be documented and written reports prepared that contain the following information:
1. The date and location of the inspection;
 2. Whether construction is in compliance with the approved stormwater management plan;
 3. Variations from the approved construction specifications;
 4. Any violations that exist.
- (8) *Performance bonds.*
- (a) The city may, at its discretion, require the submittal of a performance security or performance bond prior to issuance of a permit in order to ensure that the stormwater practices are installed by the permit holder as required by the approved stormwater management plan. The amount of the installation performance security or performance bond shall be the total estimated construction cost of the structural BMPs approved under the permit plus any reasonably foreseeable additional related costs, e.g., for damages or enforcement. The performance security shall contain forfeiture provisions for failure to complete work specified in the stormwater management plan. The applicant shall provide an itemized construction cost estimate complete with unit prices which shall be subject to acceptance, amendment or rejection by the city. Alternatively the city shall have the right to calculate the cost of construction cost estimates.
 - (b) The performance security or performance bond shall be released in full only upon submission of as-built plans and written certification by a registered professional engineer licensed to practice in Alabama that the structural BMP has been installed in accordance with the approved plan and other applicable provisions of this chapter. The city will make a final inspection of the structural

Chapter 29½ STORMWATER MANAGEMENT REGULATION

BMP to ensure that it is in compliance with the approved plan and the provisions of this chapter. Provisions for a partial pro-rata release of the performance security or performance bond based on the completion of various development stages can be made at the discretion of the city.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Sec. 29½.4. Waivers.

- (1) *General.* Every applicant shall provide for stormwater management as required by this chapter, unless a written request is filed to waive this requirement. Requests to waive the stormwater management plan requirements shall be submitted to the city for approval.
- (2) *Conditions for waiver.* The minimum requirements for stormwater management may be waived in whole or in part upon written request of the applicant, provided that at least one (1) of the following conditions applies:
 - (a) It can be demonstrated that the proposed development is not likely to impair attainment of the objectives of this chapter.
 - (b) Alternative minimum requirements for onsite management of stormwater discharges have been established in a stormwater management plan that has been approved by the city.
 - (c) Provisions are made to manage stormwater by an offsite facility. The offsite facility must be in place and designed to provide the level of stormwater control that is equal to or greater than that which would be afforded by onsite practices. Further, the facility must be operated and maintained by an entity that is legally obligated to continue the operation and maintenance of the facility.
- (3) *Downstream damage, etc. prohibited.* In order to receive a waiver, the applicant must demonstrate to the satisfaction of the city that the waiver will not lead to any of the following conditions downstream:
 - (a) Deterioration of existing culverts, bridges, dams, and other structures;
 - (b) Degradation of biological functions or habitat;
 - (c) Accelerated stream bank or streambed erosion or siltation;
 - (d) Increased threat of flood damage to public health, life or property.
- (4) *Land disturbance permit not to be issued where waiver requested.* No land disturbance permit shall be issued where a waiver has been requested until the waiver is granted. If no waiver is granted, the plans must be resubmitted with a stormwater management plan.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Sec. 29½.5. Stormwater system design and management standards.

- (1) *Stormwater design or BMP manual.*
 - (a) *Adoption.* The city adopts as its stormwater design and best management practices (BMP) manual the 2003 Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas, prepared by the state department of environmental management. The handbook is incorporated by reference in this chapter as if fully set out herein.
 - (b) This manual includes a list of acceptable BMPs including the specific design performance criteria and operation and maintenance requirements for each stormwater practice. The manual may be updated and expanded from time to time, at the discretion of the city council, upon the recommendation of the chief building official, based on improvements in engineering, science, monitoring and local maintenance experience. Stormwater facilities that are designed,

Chapter 29½ STORMWATER MANAGEMENT REGULATION

constructed and maintained in accordance with these BMP criteria will be presumed to meet the minimum water quality performance standards.

- (2) *General performance criteria for stormwater management.* Unless granted a waiver or judged by the city to be exempt, the following performance criteria shall be addressed for stormwater management at all sites:
- (a) All site designs shall control the peak flow rates of stormwater discharge associated with design storms of 2-year, 5-year, 10-year, 25-year, 50-year and 100-year intensity and reduce the generation of post construction stormwater runoff to preconstruction levels. These practices should seek to utilize pervious areas for stormwater treatment and to infiltrate stormwater runoff from driveways, sidewalks, rooftops, parking lots, and landscaped areas to the maximum extent practical to provide treatment for both water quality and quantity.
 - (b) To protect stream channels from degradation, specific channel protection criteria shall be provided as prescribed in the BMP manual.
 - (c) Stormwater discharges to critical areas with sensitive resources (i.e., cold water fisheries, shellfish beds, swimming beaches, recharge areas, water supply reservoirs) may be subject to additional performance criteria, or may need to utilize or restrict certain stormwater management practices.
 - (d) Stormwater discharges from hot spots may require the application of specific structural BMPs and pollution prevention practices.
 - (e) Prior to or during the site design process, applicants for land disturbance permits shall consult with the city to determine if they are subject to additional stormwater design requirements.
 - (f) The calculations for determining peak flows as found in the BMP manual shall be used for sizing all stormwater facilities.
- (3) *Minimum control requirements.*
- (a) Stormwater designs shall meet the multi-stage storm frequency storage requirements as identified in the BMP manual.
 - (b) If hydrologic or topographic conditions warrant greater control than that provided by the minimum control requirements, the city may impose any and all additional requirements deemed necessary to control the volume, timing, and rate of runoff.
- (4) *Stormwater management plan requirements.* The stormwater management plan shall include sufficient information to allow the city to evaluate the environmental characteristics of the project site, the potential impacts of all proposed development of the site, both present and future, on the water resources, and the effectiveness and acceptability of the measures proposed for managing stormwater generated at the project site. To accomplish this goal the stormwater management plan shall include the following:
- (a) *Topographic base map.* A scale no greater than one (1) inch equals one hundred (100) feet topographic base map of the site which extends a minimum of fifty (50) feet beyond the limits of the proposed development and indicates:
 - 1. Existing surface water drainage including streams, ponds, culverts, ditches, sink holes, wetlands; and the type, size, elevation, etc., of nearest upstream and downstream drainage structures;
 - 2. Current land use including all existing structures, locations of utilities, roads, and easements;
 - 3. All other existing significant natural and artificial features;
 - 4. Proposed land use with tabulation of the percentage of surface area to be adapted to various uses; drainage patterns; locations of utilities, roads and easements; the limits of clearing and grading;

Chapter 29½ STORMWATER MANAGEMENT REGULATION

5. Proposed structural BMPs;
 6. A written description of the site plan and justification of proposed changes in natural conditions may also be required.
- (b) *Calculations.* Hydrologic and hydraulic design calculations for the predevelopment and postdevelopment conditions for the design storms specified in the BMP manual. These calculations must show that the proposed stormwater management measures are capable of controlling runoff from the site in compliance with this chapter and the guidelines of the BMP manual. Such calculations shall include:
1. A description of the design storm frequency, duration, and intensity where applicable;
 2. Time of concentration;
 3. Soil curve numbers or runoff coefficients including assumed soil moisture conditions;
 4. Peak runoff rates and total runoff volumes for each watershed area;
 5. Infiltration rates, where applicable;
 6. Culvert, stormwater sewer, ditch and/or other stormwater conveyance capacities;
 7. Flow velocities;
 8. Data on the increase in rate and volume of runoff for the design storms referenced in the BMP manual; and
 9. Documentation of sources for all computation methods and field test results.
- (c) *Soils information.* If a stormwater management control measure depends on the hydrologic properties of soils (e.g., infiltration basins), then a soils report shall be submitted. The soils report shall be based on onsite boring logs or soil pit profiles and soil survey reports. The number and location of required soil borings or soil pits shall be determined based on what is needed to determine the suitability and distribution of soil types present at the location of the control measure.
- (d) *Maintenance and repair plan.* The design and planning of all stormwater management facilities shall include detailed maintenance and repair procedures to ensure their continued performance. These plans will identify the parts or components of a stormwater management facility that need to be maintained and the equipment and skills or training necessary. Provisions for the periodic review and evaluation of the effectiveness of the maintenance program and the need for revisions or additional maintenance procedures shall be included in the plan. A permanent elevation benchmark shall be identified in the plans to assist in the periodic inspection of the facility.
- (e) *Landscaping plan.* The applicant must present a detailed plan for management of vegetation at the site after construction is finished, including who will be responsible for the maintenance of vegetation at the site and what practices will be employed to ensure that adequate vegetative cover is preserved. Where it is required by the BMP, this plan must be prepared by a registered landscape architect licensed in Alabama.
- (f) *Maintenance easements.* The applicant must ensure access to the site for the purpose of inspection and repair by securing all the maintenance easements needed. These easements must be binding on the current property owner and all subsequent owners of the property and must be properly recorded in the land record.
- (g) *Maintenance agreement.*
1. The owner of property to be served by an onsite stormwater management facility must execute an inspection and maintenance agreement that shall operate as a deed restriction binding on the current property owner and all subsequent property owners.
 2. The maintenance agreement shall:

Chapter 29½ STORMWATER MANAGEMENT REGULATION

- a. Assign responsibility for the maintenance and repair of the stormwater facility to the owner of the property upon which the facility is located and be recorded as such on the plat for the property by appropriate notation.
 - b. Provide for a periodic inspection by the property owner for the purpose of documenting maintenance and repair needs and ensure compliance with the purpose and requirements of this chapter. The property owner will arrange for this inspection to be conducted by a registered professional engineer licensed to practice in Alabama who will submit a sealed report of the inspection to the city. It shall also grant permission to the city to enter the property at reasonable times and to inspect the stormwater facility to ensure that it is being properly maintained.
 - c. Provide that the minimum maintenance and repair needs include, but are not limited to:
 - i. The removal of silt, litter and other debris, the cutting of grass, grass cuttings and vegetation removal; and
 - ii. The replacement of landscape vegetation, in detention and retention basins, and inlets and drainage pipes and any other stormwater facilities.

It shall also provide that the property owner shall be responsible for additional maintenance and repair needs consistent with the needs and standards outlined in the BMP manual.
 - d. Provide that maintenance needs must be addressed in a timely manner, on a schedule to be determined by the city.
 - e. Provide that if the property is not maintained or repaired within the prescribed schedule, the city shall perform the maintenance and repair at its expense, and bill the same to the property owner. The maintenance agreement shall also provide that the city's cost of performing the maintenance shall be a lien against the property.
3. The city shall have the discretion to accept the dedication of any existing or future stormwater management facility, provided such facility meets the requirements of this chapter, and includes adequate and perpetual access and sufficient areas, by easement or otherwise, for inspection and regular maintenance. Any stormwater facility accepted by the city must also meet the city's construction standards and any other standards and specifications that apply to the particular stormwater facility in question.
- (h) *Sediment and erosion control plans.* The applicant must prepare a sediment and erosion control plan for all construction activities.
- (5) *Sediment and erosion control plan requirements.* The sediment and erosion control plan shall accurately describe the potential for soil erosion and sedimentation problems resulting from land disturbing activity and shall explain and illustrate the measures that are to be taken to control these problems. The length and complexity of the plan is to be commensurate with the size of the project, severity of the site condition, and potential for offsite damage. The plan shall be sealed by a registered professional engineer licensed in the state. The plan shall also conform to the requirements found in the BMP manual, and shall include at least the following:
- (a) *Project description.* Briefly describe the intended project and proposed land disturbing activity including number of units and structures to be constructed and infrastructure required.
 - (b) A topographic map with contour intervals of two (2) feet or less showing present conditions and proposed contours resulting from land disturbing activity.
 - (c) All existing drainage ways, including intermittent and wet-weather. Include any designated floodways or flood plains.

Chapter 29½ STORMWATER MANAGEMENT REGULATION

- (d) A general description of existing land cover. Individual trees and shrubs do not need to be identified.
- (e) Stands of existing trees as they are to be preserved upon project completion, specifying their general location on the property. Differentiation shall be made between existing trees to be preserved, trees to be removed and proposed planted trees. Tree protection measures must be identified, and the diameter of the area involved must also be identified on the plan and shown to scale. Information shall be supplied concerning the proposed destruction of exceptional and historic trees in setbacks and buffer strips, where they exist. Complete landscape plans may be submitted separately. The plan must include the sequence of implementation for tree protection measures.
- (f) Approximate limits of proposed clearing, grading and filling.
- (g) Approximate flows of existing stormwater leaving any portion of the site.
- (h) A general description of existing soil types and characteristics and any anticipated soil erosion and sedimentation problems resulting from existing characteristics.
- (i) Location, size and layout of proposed stormwater and sedimentation control improvements.
- (j) Proposed drainage network.
- (k) Proposed drain tile or waterway sizes.
- (l) Approximate flows leaving site after construction and incorporating water run-off mitigation measures. The evaluation must include projected effects on property adjoining the site and on existing drainage facilities and systems. The plan must address the adequacy of outfalls from the development: when water is concentrated, what is the capacity of waterways, if any, accepting stormwater offsite; and what measures, including infiltration, sheeting into buffers, etc., are going to be used to prevent the scouring of waterways and drainage areas offsite, etc.
- (m) The projected sequence of work represented by the grading, drainage and sedimentation and erosion control plans as related to other major items of construction, beginning with the initiation of excavation and including the construction of any sediment basins or retention facilities or any other structural BMPs.
- (n) Specific remediation measures to prevent erosion and sedimentation run-off. Plans shall include detailed drawings of all control measures used; stabilization measures including vegetation and nonvegetation measures, both temporary and permanent, will be detailed. Detailed construction notes and a maintenance schedule shall be included for all control measures in the plan.
- (o) Specific details for the construction of rock pads, wash down pads, and settling basins for controlling erosion; road access points; eliminating or keeping soil, sediment, and debris on streets and public ways at a level acceptable to the city. Soil, sediment, and debris brought onto streets and public ways must be removed by the end of the workday by machine, broom or shovel to the satisfaction of the city. Failure to remove the sediment, soil or debris shall be deemed a violation of this chapter.
- (p) Proposed structures; location (to the extent possible) and identification of any proposed additional buildings, structures or development on the site.
- (q) A description of onsite measures to be taken to recharge surface water into the ground water system through infiltration.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Chapter 29½ STORMWATER MANAGEMENT REGULATION

Sec. 29½.6. Post construction.

- (1) *As built plans.* All applicants are required to submit actual as built plans for any structures located onsite after final construction is completed. The plan must show the final design specifications for all stormwater management facilities and must be sealed by a registered professional engineer licensed to practice in the state. A final inspection by the city is required before any performance security or performance bond will be released. The city shall have the discretion to adopt provisions for a partial pro-rata release of the performance security or performance bond on the completion of various stages of development. In addition, occupation permits shall not be granted until corrections to all BMPs have been made and accepted by the city.
- (2) *Landscaping and stabilization requirements.*
 - (a) Any area of land from which the natural vegetative cover has been either partially or wholly cleared by present or past development activities shall be revegetated according to a schedule approved by the city. The following criteria shall apply to revegetation efforts:
 1. All sites shall have at least ten (10) percent "green" vegetated areas.
 2. Reseeding must be done with an annual or perennial cover crop accompanied by placement of straw mulch or its equivalent of sufficient coverage to control erosion until such time as the cover crop is established over ninety (90) percent of the seeded area.
 3. Replanting with native woody and herbaceous vegetation must be accompanied by placement of straw mulch or its equivalent of sufficient coverage to control erosion until the plantings are established and are capable of controlling erosion.
 4. Any area of revegetation must exhibit survival of a minimum of seventy-five (75) percent of the cover crop throughout the year immediately following revegetation. Revegetation must be repeated in successive years until the minimum seventy-five (75) percent survival for one (1) year is achieved.
 - (b) In addition to the above requirements, a landscaping plan must be submitted with the final design describing the vegetative stabilization and management techniques to be used at a site after construction is completed. This plan will explain not only how the site will be stabilized after construction, but who will be responsible for the maintenance of vegetation at the site and what practices will be employed to ensure that adequate vegetative cover is preserved.
- (3) *Inspection of stormwater management facilities.* Periodic inspections of facilities shall be performed.
- (4) *Records of installation and maintenance activities.* Parties responsible for the operation and maintenance of a stormwater management facility shall make records of the installation of the stormwater facility, and of all maintenance and repairs to the facility, and shall retain the records for at least thirteen (13) years after substantial completion of the stormwater facility. These records shall be made available to the city during inspection of the facility and at other reasonable times upon request.
- (5) *Failure to meet or maintain design or maintenance standards.* If a responsible party fails or refuses to meet the design or maintenance standards required for stormwater facilities under this chapter, the city, after reasonable notice, may correct a violation of the design standards or maintenance needs by performing all necessary work to place the facility in proper working condition. In the event that the stormwater management facility becomes a danger to public safety or public health, the city shall notify in writing the party responsible for maintenance of the stormwater management facility. Upon receipt of that notice, the responsible person shall have fourteen (14) calendar days, or such additional time as the city engineer shall determine to be reasonably necessary to complete the action, to effect maintenance and repair of the facility in an approved manner. In the event that corrective action is not undertaken within that time, the city may take necessary corrective action. The cost of any action by the city under this section shall be charged to the responsible party.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Chapter 29½ STORMWATER MANAGEMENT REGULATION

Sec. 29½.7. Existing locations and developments.

- (1) *Requirements for all existing locations and developments.* The following requirements shall apply to all locations and development at which land disturbing activities have occurred subsequent to the enactment of this chapter:
 - (a) Denuded areas must be vegetated or covered under the standards and guidelines specified in the BMP manual and on a schedule acceptable to the city.
 - (b) Cuts and slopes must be properly covered with appropriate vegetation and/or retaining walls constructed.
 - (c) Drainage ways shall be properly covered in vegetation or secured with rip-rap, channel lining, etc., to prevent erosion.
 - (d) Trash, junk, rubbish, etc. shall be cleared from drainage ways.
 - (e) Stormwater runoff shall be controlled to prevent pollution of local waters. Current control measures may include, but are not limited to, the following:
 1. *Ponds:*
 - a. Detention pond.
 - b. Extended detention pond.
 - c. Wet pond.
 - d. Alternative storage measures.
 2. *Constructed wetlands.*
 3. *Infiltration systems:*
 - a. Infiltration/percolation trench.
 - b. Infiltration basin.
 - c. Drainage (recharge) well.
 - d. Porous pavement.
 4. *Filtering systems:*
 - a. Bio-retention area/rain garden.
 - b. Catch basin inserts/media filter.
 - c. Sand filter.
 - d. Filter/absorption bed.
 - e. Filter and buffer strips.
 5. *Open channel:*
 - a. Swale.
- (2) *Requirements for existing problem locations.* When the city becomes aware of a problem location, the city shall in writing notify the owners of existing locations and developments of specific drainage, erosion or sediment problem affecting such locations and developments, and the action required to correct those problems. The notice shall also specify a reasonable time for compliance.
- (3) *Inspection of existing facilities.* The city may, to the extent authorized by state and federal law, establish inspection programs to verify that all stormwater management facilities, including those built before as well as after the adoption of this chapter, are functioning within design limits. These inspection

Chapter 29½ STORMWATER MANAGEMENT REGULATION

programs may be established on any reasonable basis, including but not limited to: routine inspections; random inspections; inspections based upon complaints or other notice of possible violations; inspection of drainage basins or areas identified as higher than typical sources of sediment or other contaminants or pollutants; inspections of businesses or industries of a type associated with higher than usual discharges of contaminants or pollutants or with discharges of a type which are more likely than the typical discharge to cause violations of the city's NPDES stormwater permit; and joint inspections with other agencies inspecting under environmental or safety laws. Inspections may include, but are not limited to: reviewing maintenance and repair records; sampling discharges, surface water, groundwater, and material or water in drainage control facilities; and evaluating the condition of drainage control facilities and other BMPs.

- (4) *Correction of problems subject to appeal.* Corrective measures imposed by the city under this section are subject to appeal.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Sec. 29½.8. Illicit discharges.

- (1) *Scope.* This section shall apply to all water generated on developed or undeveloped land entering the city's separate storm sewer system.
- (2) *Prohibition of illicit discharges.* No person shall introduce or cause to be introduced into the municipal separate storm sewer system any discharge that is not composed entirely of stormwater. The commencement, conduct or continuance of any nonstormwater discharge to the municipal separate storm sewer system is prohibited except as described as follows:
- (a) Uncontaminated discharges from the following sources:
1. Water line flushing or other potable water sources;
 2. Landscape irrigation or lawn watering with potable water;
 3. Diverted stream flows;
 4. Rising ground water;
 5. Groundwater infiltration to storm drains;
 6. Pumped groundwater;
 7. Foundation or footing drains;
 8. Crawl space pumps;
 9. Air conditioning condensation;
 10. Springs;
 11. Noncommercial washing of vehicles;
 12. Natural riparian habitat or wetland flows;
 13. Swimming pools (if dechlorinated—typically less than one PPM chlorine);
 14. Fire fighting activities; and
 15. Any other uncontaminated water source.
- (b) Discharges specified in writing by the city as being necessary to protect public health and safety.
- (c) Dye testing is an allowable discharge if the city has so specified in writing.
- (3) *Prohibition of illicit connections.*

Chapter 29½ STORMWATER MANAGEMENT REGULATION

- (a) The construction, use, maintenance or continued existence of illicit connections to the separate municipal storm sewer system is prohibited.
 - (b) This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- (4) *Reduction of stormwater pollutants by the use of best management practices.* Any person responsible for a property or premises, which is, or may be, the source of an illicit discharge, may be required to implement, at the person's expense, the BMPs necessary to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of stormwater associated with industrial activity, to the extent practicable, shall be deemed compliance with the provisions of this section.
- (5) *Notification of spills.* Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting in, or may result in, illicit discharges or pollutants discharging into stormwater, the municipal separate storm sewer system, the person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials the person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of nonhazardous materials, the person shall notify the city in person or by telephone or facsimile no later than the next business day. Notifications in person or by telephone shall be confirmed by written notice addressed and mailed to the city within three (3) business days of the telephone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an onsite written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least thirteen (13) years after the release.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Sec. 29½.9. Enforcement.

- (1) *Enforcement authority.* The departments of planning and engineering of the city shall have the authority to issue notices of violation and citations and to designate those persons who have enforcement authority.
- (2) *Notification of violation.*
 - (a) *Written notice.* Whenever an authorized employee of the city finds that any permittee or any other person discharging stormwater has violated or is violating this chapter or a permit or order issued hereunder, the employee may serve upon such person written notice of the violation. Within ten (10) days of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted to the departments of planning and engineering. Submission of this plan in no way relieves the discharger of liability for any violations occurring before or after receipt of the notice of violation.
 - (b) *Consent orders.* The authorized employees of the city are empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with the person responsible for the noncompliance. Such orders will include specific action to be taken by the person to correct the noncompliance within a time period also specified by the order. Consent orders shall have the same force and effect as administrative orders issued pursuant to paragraphs (d) and (e) below.
 - (c) *Show cause hearing.* An authorized employee of the city may order any person who violates this chapter or permit or order issued hereunder, to show cause why a proposed enforcement action should not be taken. Notice shall be served on the person specifying the time and place for the

Chapter 29½ STORMWATER MANAGEMENT REGULATION

meeting, the proposed enforcement action and the reasons for such action, and a request that the violator show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least ten (10) days prior to the hearing.

- (d) *Compliance order.* When an authorized employee of the city finds that any person has violated or continues to violate this chapter or a permit or order issued thereunder, he may issue an order to the violator directing that, following a specific time period, adequate structures, devices, be installed or procedures implemented and properly operated. Orders may also contain such other requirements as might be reasonably necessary and appropriate to address the noncompliance, including the construction of appropriate structures, installation of devices, self-monitoring, and management practices.
- (e) *Cease and desist orders.* When an authorized employee of the city finds that any person has violated or continues to violate this chapter or any permit or order issued hereunder, the employee may issue an order to cease and desist all such violations and direct those persons in noncompliance to:
 - 1. Comply forthwith; or
 - 2. Take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation, including halting operations and terminating the discharge.
 - 3. *Conflicting standards.* Whenever there is a conflict between any standard contained in this chapter and in the BMP manual adopted by the city under this chapter, the strictest standard shall prevail.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Sec. 29½.10. Penalties.

- (1) *Violations.* Any person who shall commit any act declared unlawful under this chapter, who violates any provision of this chapter, who violates the provisions of any permit issued pursuant to this chapter, or who fails or refuses to comply with any lawful communication or notice to abate or take corrective action by the city, shall be guilty of a criminal offense.
- (2) *Penalties.* Under the authority provided in Code of Ala., § 11-45-9, the city declares that any person violating the provisions of this chapter may be fined not less than fifty dollars (\$50.00) and not more than five hundred dollars (\$500.00) per day for each day of violation. Each day of violation shall constitute a separate violation.
- (3) *Recovery of damages and costs.* The city may recover:
 - (a) All damages proximately caused by the violator to the city, which may include any reasonable expenses incurred in investigating violations of, and enforcing compliance with, this chapter, or any other actual damages caused by the violation; and
 - (b) The costs of the city's maintenance of stormwater facilities when the user of such facilities fails to maintain them as required by this chapter.
- (4) *Other remedies.* The city may bring legal action to enjoin the continuing violation of this chapter. The existence of any other remedy, at law or equity, shall be no defense to any such actions.
- (5) *Remedies cumulative.* The remedies set forth in this section shall be cumulative, not exclusive. It shall not be a defense to any action, civil or criminal, that one (1) or more of the remedies set forth herein has been sought or granted.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Chapter 29½ STORMWATER MANAGEMENT REGULATION

Sec. 29½.11. Appeals.

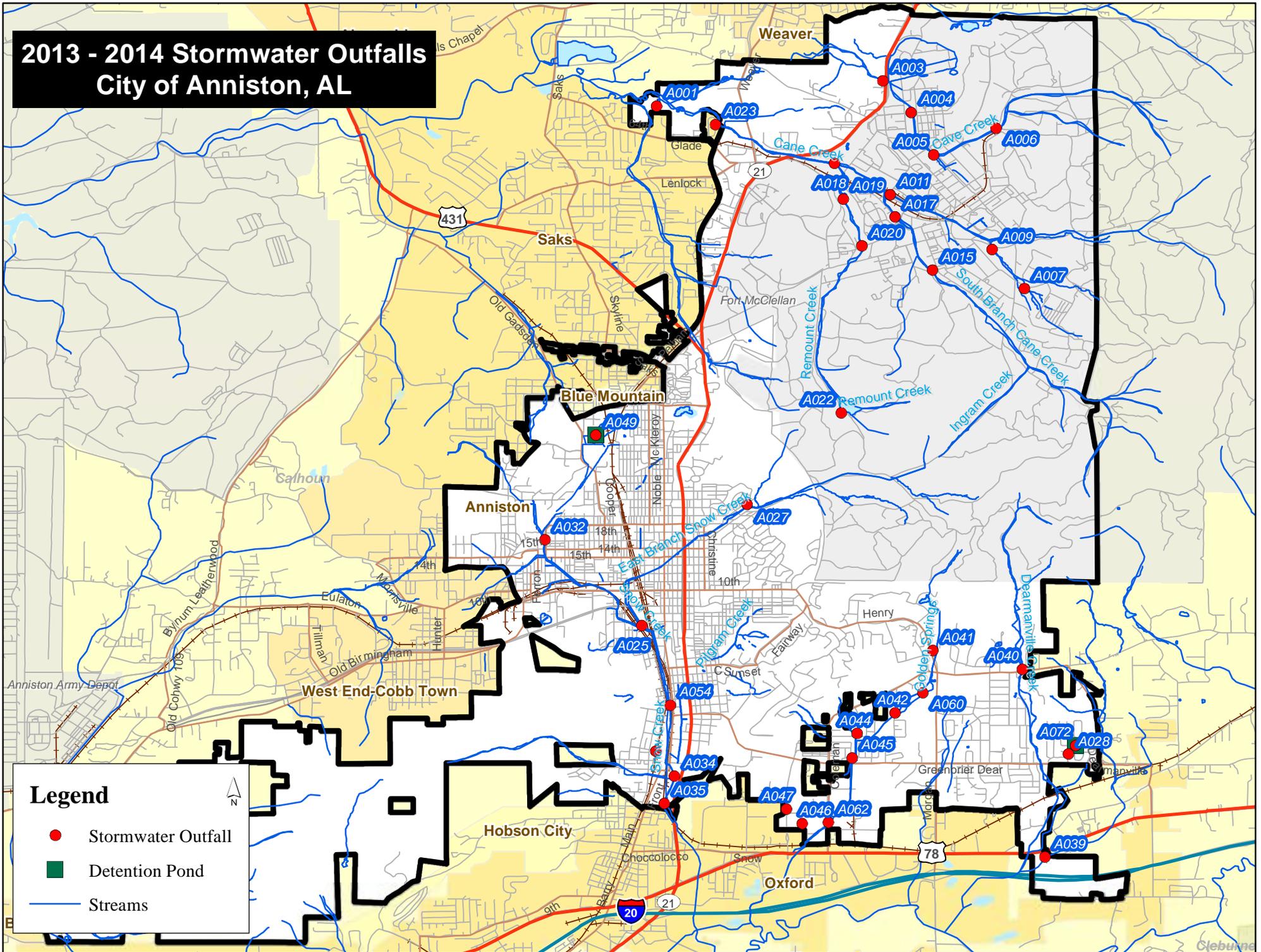
Any person aggrieved by the imposition of a civil penalty or damage assessment as provided by this chapter may appeal said penalty or damage assessment to the city council.

- (1) *Appeals to be in writing.* The appeal shall be in writing and filed with the city clerk within fifteen (15) days after the civil penalty and/or damage assessment is served in any manner authorized by law.
- (2) *Public hearing.* Upon receipt of an appeal, the city council shall hold a public hearing within thirtt (30) days. Ten-days' prior notice of the time, date, and location of said hearing shall be published in a daily newspaper of general circulation. Ten-days' notice by registered mail shall also be provided to the aggrieved party, such notice to be sent to the address provided by the aggrieved party at the time of appeal. The decision of the city council shall be final.
- (3) *Appealing decisions of the city council.* Any alleged violator may contest a decision of the city council pursuant to the provisions of Alabama law and court rules.

(Ord. No. 08-O-1, § 1, 1-22-2008)

Appendix B: Map of MS4 Outfalls and Stormwater Controls

2013 - 2014 Stormwater Outfalls City of Anniston, AL



Appendix C: Checklists

Annual Inspection Report for Stormwater Management Ponds

Location: _____

Date: _____

Inspector: _____

| Inspection Items: | Pass | Fail | N/A | Comments |
|---------------------------------|------|------|-----|----------|
| Terrain/bank Components | | | | |
| Bank Stabilization | | | | |
| Spillway | | | | |
| Outfall | | | | |
| Other: | | | | |
| Water Quality | | | | |
| Turbidity | | | | |
| Floating Debris | | | | |
| Submerged/semi-submerged debris | | | | |
| Oil Sheen/Surface Scum | | | | |
| Other: | | | | |
| General Site Conditions | | | | |
| Proper Maintenance Access | | | | |
| Other: | | | | |
| Structures | | | | |
| Pumps | | | | |
| Aerators | | | | |
| Valves | | | | |
| Water Treatment Structures | | | | |
| Other: | | | | |

Actions Required: _____

OUTFALL RECONNAISSANCE INVENTORY / SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

| | | | |
|---|--|-------------------------------------|--|
| Subwatershed: | | Outfall ID: | |
| Today's Date: | | Time (24 hour/Military): | |
| Investigators: | | Form Completed By: | |
| Temperature (°F): | Rainfall (in): | Last 24 hours: | Last 48 hours: |
| Latitude: | Longitude: | Coord. Obtained: | |
| Camera: | | Photo #: | |
| Land Use in Drainage Area (Check all that apply): | | | |
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Ultra-Urban Residential | <input type="checkbox"/> Open Space | <input type="checkbox"/> Institutional |
| <input type="checkbox"/> Suburban Residential | <input type="checkbox"/> Commercial | Other: _____ | |
| | | Known Industries: _____ | |
| Notes (e.g., origin of outfall if known): | | | |

Section 2: Outfall Description

| Location | Material | Shape | Dimensions (In) | Submerged |
|--|---|---|--|---|
| <input type="checkbox"/> Closed Pipe | <input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> Steel <input type="checkbox"/> CMP <input type="checkbox"/> HDPE <input type="checkbox"/> Other: CMP/conc | <input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: | Diam./Dimensions: Sketch: | In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully w/ sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully |
| <input type="checkbox"/> Open Drainage | <input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other: Nat. Rock | <input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: RECT/Box | Depth: 20" Top Width: 48" Bottom Width: 48" Side Slope: 0 | |
| <input type="checkbox"/> In Stream | (applicable when collecting samples) | | | |
| Flow Present? | Yes or No (If No then skip to section 5) | | | |
| Flow Description | <input type="checkbox"/> Trickle | <input type="checkbox"/> Moderate | <input type="checkbox"/> Substantial | |

Section 3: Quantitive Characterization

| Field Data for Flowing Outfalls | | | | |
|----------------------------------|-----------------|--------|----------|--------------------|
| | Parameter | Result | Unit | Equipment |
| <input type="checkbox"/> Flow #1 | Volume | | Liter | Bottle |
| | Time to Fill | | Sec | Stop Watch |
| <input type="checkbox"/> Flow #2 | Flow Depth | | In | Tape Measure |
| | Flow Width | | Ft, In | Tape Measure |
| | Measured Length | | Ft, In | Tape Measure |
| | Time of Travel | | Sec | Stop Watch |
| | Temperature | | °F | Thermometer |
| | pH | | pH units | Test Strip / Probe |
| | Ammonia | | mg/L | Test Strip |

OUTFALL RECONNAISSANCE INVENTORY / SAMPLE COLLECTION FIELD SHEET

Section 4: Physical Indicators for Flowing Outfalls Only

Are any physical Indicators Present in Flow? Yes No (If No then Skip to Section 5)

| Indicator | Check if any | Description | Relative Severity Index (1 - 3) | | |
|------------------------|--------------------------|--|--|--|---|
| Odor | <input type="checkbox"/> | <input type="checkbox"/> Sewage <input type="checkbox"/> Rancide/Sour <input type="checkbox"/> Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other: | <input type="checkbox"/> 1- Faint | <input type="checkbox"/> 2-Easily detected | <input type="checkbox"/> 3-Notice from a dist |
| Color | <input type="checkbox"/> | <input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: | <input type="checkbox"/> 1- Faint colors in sample | <input type="checkbox"/> 2-Clearly visible in sample | <input type="checkbox"/> 3-clearly visible in outfall |
| Turbidity | <input type="checkbox"/> | See Severity | <input type="checkbox"/> 1-Slight Cloudy | <input type="checkbox"/> 2-Cloudy | <input type="checkbox"/> 3-Opaque |
| Floatables - DNI Trash | <input type="checkbox"/> | <input type="checkbox"/> Sewage (TP, etc) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (sheen) <input type="checkbox"/> Other: | <input type="checkbox"/> 1- Few/Slight; originunk | <input type="checkbox"/> 2-Some; origin indic | <input type="checkbox"/> 3-Some; origins clear |

Section 5: Physical Indicators for Flowing Outfalls Only

| Indicator | Check if any | Descriptions | Comments |
|---------------------|--------------------------|---|----------|
| Outfall Damage | <input type="checkbox"/> | <input type="checkbox"/> Spalling,cracking, chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corosion | |
| Deposits/Stains | <input type="checkbox"/> | <input type="checkbox"/> Oily <input type="checkbox"/> Flowline <input type="checkbox"/> Paint <input type="checkbox"/> Other: | |
| Abnormal Vegetation | <input type="checkbox"/> | <input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited | |
| Poor Pool Quality | <input type="checkbox"/> | <input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floats <input type="checkbox"/> Oil sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: | |
| Pipe benthic growth | <input type="checkbox"/> | <input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other: | |

Section 6: Overall Outfall Characteristics

| | | | |
|-----------------------------------|---|--|----------------------------------|
| <input type="checkbox"/> Unlikely | <input type="checkbox"/> Potential (presence of 2 or more indicators) | <input type="checkbox"/> Suspect (1 or more indicators with severity of 3) | <input type="checkbox"/> Obvious |
|-----------------------------------|---|--|----------------------------------|

Section 7: Data Collection

| | |
|-------------------------------|--|
| 1. Sample for the lab? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. If yes, collected from: | <input type="checkbox"/> Flow <input type="checkbox"/> Pool |
| 3. Intermitten flow trap set? | <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk Dam |

Section 8: Any Non-Illicit Discharge Concerns (eg trash or needed infrastructure repairs)?

City of Anniston, Alabama Storm Water Inspection Checklist

| | |
|-------------------------------|--|
| Facility: | |
| Facility Location: | |
| Date of Inspection: | |
| Reason for Inspection: | |
| Weather: | |

| | | | |
|--|------------|-----------|------------|
| Has the facility applied for coverage under the NPDES Industrial Stormwater Permit? | YES | NO | N/A |
| Does facility have Stormwater Pollution Prevention Plan (SWP3)? | YES | NO | N/A |
| Has facility implemented the SWP3? | YES | NO | N/A |
| Is there evidence of stormwater pollutants leaving site? (If YES, explain below) Describe pollutants: | | | |
| | | | |

| | | |
|---|------------|-----------|
| Were stormwater issues discussed with on-site representative? | YES | NO |
| If YES, what is name and position of representative? | Name: | |
| | Position: | |
| Other comments/summary: | | |
| | | |

| | |
|------------------------|--|
| Inspector Name: | |
| Company: | |
| Signature: | |

Inspection Results:

| Inspection Completed For: | YES/ NO/NA | PASS/ FAIL | Deficiencies Found | PHOTO # |
|---|---------------|---------------|-----------------------|------------|
| Current Industrial NOI | | | | |
| Stormwater Pollution Prevention Plan | | | | |
| Areas around machinery and/or equipment | | | | |
| Areas prone to leaks and spills | | | | |
| Outdoor storage and handling areas | | | | |
| Waste generation, storage, treatment and disposal areas | | | | |
| Vehicle wash-down areas | | | | |
| Fueling areas | | | | |
| Loading and unloading areas | | | | |
| Other: | | | | |

| Inspect for the following: | |
|--|---|
| Stains, spots or puddles of oils, grease, or chemicals on concrete or around drains. | Torn bags of dry chemicals or bags exposed to rain |
| Leaking or corroded equipment, pipes, containers, or lines. | Broken or cracked dikes, walls, or other physical barriers |
| Improperly labeled or leaking drums | Improper outdoor storage of potential stormwater pollutants |
| Inadequate or inaccessible spill response equipment | Oily rags improperly discarded |