



**Georgia Stormwater Management Plan (SWMP)  
For the General Permit  
Small Municipal Separate Storm Sewer Systems**

**CITY OF CHICKAMAUGA, GEORGIA**

**NPDES Permit No. GAG610000**

**Prepared For**

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
Environmental Protection Division  
Watershed Protection Branch  
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**Originally Prepared by:**

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March 2014**

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Project No. G14012-04  
October 2014**



STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION

**GEORGIA STORMWATER MANAGEMENT PLAN (SWMP)**

General NPDES Permit No. GAG610000 for  
Small Municipal Separate Storm Sewer Systems (MS4)

**I. General Information**

- A. Name of small MS4: City of Chickamauga, Georgia
- B. Name of responsible official: Ray Crowder  
Title: Mayor  
Mailing Address: 103 Crittenden Avenue (P.O. Box 69) City: Chickamauga State: Georgia Zip Code: 30707  
Telephone Number: 706-375-3177
- C. Designated stormwater management program contact:  
Name: Jim Powell  
Title: Office Manager, Planning and Zoning Administrator  
Mailing Address: 103 Crittenden Avenue (P.O. Box 69) City: Chickamauga State: Georgia Zip Code: 30707  
Telephone Number: 706-375-3177  
Email Address: jpowell-zoning@comcast.net

**II. Sharing Responsibility**

- A. Has another entity agreed to implement a control measure on your behalf?  
Yes \_\_\_\_\_ No  X  (If no, skip to Part III).

Control Measure or BMP:

1. Name of entity Not applicable
2. Control measure or component of control measure to be implemented by entity on your behalf:
- B. Attach an additional page if necessary to list additional shared responsibilities. **It is mandatory that you submit a copy of a written agreement between your MS4 and the other entity demonstrating written acceptance of responsibility.**

3. **Minimum Control Measures\* and Appendices**

- A. Public Education and Outreach
- B. Public Involvement/Participation
- C. Illicit Discharge Detection and Elimination
- D. Construction Site Stormwater Runoff Control
- E. Post-Construction Stormwater Management in New Development and Redevelopment
- F. Pollution Prevention/Good Housekeeping
- G. Enforcement Response Plan
- H. Impaired Waters

\* A minimum of two BMPs per minimum control measure is required.

4. **Certification Statement**

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

Printed Name: Ray Crowder Date: 10/10/14

Signature: \_\_\_\_\_ Title: Mayor

## ATTACHMENTS

- A. Possible Educational Brochures
- B. Chickamauga Web Page
- C. Illicit Discharge Detection and Elimination Ordinance
- D. Current Outfall Map and Inventory of Structures
- E. Illicit Discharge Detection and Elimination Procedures
- F. Business/Industry/Public Institution Inspection Checklist
- G. Citizen's Complaint Procedures
- H. Soil Erosion, Sedimentation and Pollution Control Ordinance
- I. Erosion and Sedimentation Control Plan Review Procedures
- J. Soil Erosion and Sediment Control Site Inspection Procedures
- K. Post-development Stormwater Management for New Development or Redevelopment Ordinance
- L. Post-development Stormwater Plan Review Procedures
- M. Stormwater Maintenance Agreement
- N. MS4 Operations and Maintenance Procedures
- O. Water Quality Evaluation Form for Existing MS4 Flood Control Structures
- P. Municipal Inspection Checklist



**GEORGIA STORMWATER MANAGEMENT PLAN (SWMP)  
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**Appendix A: Public Education and Outreach on Stormwater Impacts**

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**Best Management Practice (BMP) A-1**

1. Target audience: General Public
2. Description of BMP: Brochures, Fact Sheets and Magnets – Distribution of high quality educational materials is useful in promoting the understanding of environmental issues among the general public. The City of Chickamauga has recently selected and obtained brochures, fact sheets and magnets on effective stormwater management and other water-related topics developed by Georgia Environmental Protection Division (GA EPD), the United States Environmental Protection Agency (EPA), the Clean Water Campaign, and other sources. Topics include: proper disposal of hazardous wastes; erosion and sediment control; pet waste management; water conservation; and many others. Materials will be distributed at three city locations: City Hall, the Train Depot/Welcome Center, and the Chickamauga Public Library. The types of brochures and fact sheets distributed will vary depending upon availability from the Clean Water Campaign and the number distributed at City Hall refilled as needed. A list of possible educational materials is included as Attachment A.
3. Measurable Goal(s): The City will evaluate the contents of each display at semi-annually, replacing items as needed.
4. Documentation to be submitted with each annual report: The number and types of educational materials distributed at the three distribution locations will be reported to EPD on an annual basis.
5. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: 2010
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: At least twice each year
6. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator

7. Rationale for choosing BMP and setting measurable goal(s): Distribution of high quality educational materials is useful in promoting the understanding of environmental issues among the general public.
  
8. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City will monitor the number and types of brochures, etc. distributed over time. Although not a direct indicator of water quality in local streams, it is believed that education will have an intangible effect on water quality. For the purposes of this SWMP, this BMP will be considered effective if at least 25 pieces of educational materials are distributed in this small town each year.



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**Appendix A: Public Education and Outreach on Stormwater Impacts**

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**Best Management Practice (BMP) A-2**

1. Target audience: General Public
2. Description of BMP: Annual Stormwater Management Program Report City Council Meeting – An Annual Stormwater Management Report featuring highlights of the City’s program over the past year will be presented to the Chickamauga City Council on an annual basis. These meetings pose an excellent opportunity to educate local officials as well as citizens about various stormwater issues and concerns. Possible topics include: regulatory requirements; capital improvement projects; cleanups; etc. Improved understanding by all will enable the Stormwater Management Program to be more effective.
3. Measurable Goal(s): The City will prepare, present to the City Council in a public meeting a Stormwater Management Program Report on an annual basis.
4. Documentation to be submitted with each annual report: Copy of the Annual Stormwater Management Report and City Council Meeting Minutes
5. Schedule:
  - A. Interim Milestone Dates (if applicable): Not Applicable
  - B. Implementation Date (if applicable): April 2013
  - C. Frequency of actions (if applicable): Annual
  - D. Month/Year of each action (if applicable): On-going
6. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator

7. Rationale for choosing BMP and setting measurable goal(s): The City believes that featuring useful information about stormwater management and watershed protection at a regularly scheduled City Council Meeting is a cost-effective way to educate local residents and businesses about this important issue.
  
8. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City will record the number of attendees to this annual meeting. In addition a copy of the report will be available at City Hall for public viewing at all times. Although not a direct indicator of water quality in local streams, it is believed that easily accessible information on the importance of stormwater management and healthy streams will have an intangible effect on water quality. For the purposes of this SWMP, this BMP will be considered effective if there are at least 25 in attendance each year at this meeting.

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**Appendix A: Public Education and Outreach on Stormwater Impacts**

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**Best Management Practice (BMP) A-3**

1. Target audience: General Public
2. Description of BMP: Annual Stormwater Management Program Report City Council Meeting and Web Site – An Annual Stormwater Management Report featuring highlights of the City’s program over the past year will be posted on the City’s website on an annual basis. Posting this document provides an excellent opportunity to educate local officials as well as citizens about various stormwater issues and concerns. Improved understanding by all will enable the Stormwater Management Program to be more effective.
3. Measurable Goal(s): On an annual basis, The City will prepare and post a Stormwater Management Program Report on the City’s web site <http://cityofchickamauga.org/stormwater> (see Attachment B).
4. Documentation to be submitted with each annual report: Copy of the Annual Stormwater Management Report, City Council Meeting Minutes and an estimate of the number of times each report was viewed on the web site (if available)
5. Schedule:
  - A. Interim Milestone Dates (if applicable): Not Applicable
  - B. Implementation Date (if applicable): April 2013
  - C. Frequency of actions (if applicable): Annual
  - D. Month/Year of each action (if applicable): On-going
6. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator

7. Rationale for choosing BMP and setting measurable goal(s): Use of the internet is increasing over time. The City believes that featuring useful information about stormwater management and watershed protection is a cost-effective way to educate local residents and businesses about this important issue.
  
8. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City will monitor the number of hits to the Stormwater Web Page over time. Although not a direct indicator of water quality in local streams, it is believed that easily accessible information on the importance of stormwater management and healthy streams will have an intangible effect on water quality. For the purposes of this SWMP, this BMP will be considered effective if the site receives at least 25 hits each year.

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**Appendix A: Public Education and Outreach on Stormwater Impacts**

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**Best Management Practice (BMP) A-4**

1. Target audience: School Children
2. Description of BMP: Stormwater Education Program for School Children - The City of Chickamauga has provided Chickamauga City School System with two Enviroscope Watershed Model Kits for use in educating our young people on the importance of water quality and quantity, watershed protection, the importance of recycling, soil erosion, water pollution, etc. Prior to the beginning of each school year, discussions are held with the School Superintendent and the Curriculum to insure that adequate equipment and supplies are available for the coming year.
3. Measurable Goal(s): The City will assist the school system by providing brochures, speakers, and/or funding for supplies (e.g., Enviroscope) to the Chickamauga City School System.
4. Documentation to be submitted with each annual report: The type of educational support provided to the school system by the City and a summary of the number of students participating in the program will be reported on an annual basis.
5. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: 2010
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: At least once each year
6. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
7. Rationale for choosing BMP and setting measurable goal(s): Educating school age children on storm water and water quality practices, including watershed awareness and management, recycling, soil erosion, water pollution, life cycles, etc., will help better public awareness.

8. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City will monitor the number of children educated over time. Although not a direct indicator of water quality in local streams, it is believed that education will have an intangible effect on water quality. For the purposes of this SWMP, this BMP will be considered effective if at least 25 children participate in the program each year.

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**Appendix B: Public Involvement /Participation**

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**Best Management Practice (BMP) B-1**

1. Target audience/ Stakeholder group: General Public
2. Description of BMP: Recycle Day - Invite City residents to participate in a Recycle Day held once each year in either the spring or fall. Citizens will be encouraged to bring newspaper, cans, bottles and/or electronics to a location within the City of Chickamauga (e.g., City Hall). The materials will be recycled, and thus prevent the waste from entering local streams. The City will organize and market the event through a variety of mechanisms including: flyers, the web site, announcement at the City Council Meeting, local newspaper, etc.
3. Measurable Goal(s): A minimum of one cleanup/recycling event held each year
4. Documentation to be submitted with each annual report: The City will provide photographs and/or a description of each event including the number of participants and an estimate of materials recycled.
5. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: January 2014
  - C. Frequency of actions: One time per year
  - D. Month/Year of each action: Varies
6. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
7. Rationale for choosing BMP and setting measurable goal(s): By hosting and marketing cleanup/recycling events, the City believes residents will participate and thus help prevent the waste from being illegally discharged into local streams.

8. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City believes that participation of local residents and businesses in cleanup/recycling events will increase awareness of why it is important not to litter and how everyone can help protect local streams. Further, the clean-ups will result in prevention and/or actual removal of litter and other debris from the City parks and road right-of-ways. The City will consider this BMP effective if five or more residents/school children/college students participate in each annual event.



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**Appendix B: Public Involvement /Participation**

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**Best Management Practice (BMP) B-2**

1. Target audience/ Stakeholder group: General Public
2. Description of BMP: Cleanup/Beautification Day – The City will work with the Chickamauga Woman’s Club and/or other local organizations/groups to host a community cleanup/beautification day once each year. The City will help organize and market the event through a variety of mechanisms including: flyers, the web site, announcement at the City Council Meeting, local newspaper, etc. and provide assistance as needed (e.g., provide garbage bags, gloves, drinking water and/or disposal of litter collected) to ensure the event is successful.
3. Measurable Goal(s): A minimum of one cleanup/beautification event held each year
4. Documentation to be submitted with each annual report: The City will provide photographs and/or a description of each event including the number of participants and activities performed.
5. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: January 2014
  - C. Frequency of actions: One time per year
  - D. Month/Year of each action: Varies
6. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
7. Rationale for choosing BMP and setting measurable goal(s): By hosting and marketing cleanup/recycling events, the City believes residents will participate and thus help prevent the waste from being illegally discharged into local streams.

8. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City believes that participation of local residents and businesses in cleanup/recycling events will increase awareness of why it is important not to litter and how everyone can help protect local streams. Further, the clean-ups will result in prevention and/or actual removal of litter and other debris from the City parks and road right-of-ways. The City will consider this BMP effective if five or more residents/school children/college students participate in each annual event.

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**Appendix C: Illicit Discharge Detection and Elimination**

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40 CFR Part 122.34(b)(3) Requirement: The permittee must develop, implement and enforce a program to detect and eliminate illicit discharges into your small MS4. You must:

- A) Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls;
- B) Effectively prohibit, through ordinance, or other regulatory mechanism, non-stormwater discharges into your storm sewer system and implement appropriate enforcement procedures and actions;
- C) Develop and implement a plan to detect and address non-stormwater discharges, including illegal dumping, to your system; and
- D) Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.



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**Appendix C: Illicit Discharge Detection and Elimination**

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**Best Management Practice (BMP) C-1**

1. Description of BMP: Legal Authority – Adoption of an ordinance that effectively enables the City to implement the Illicit Discharge Detection and Elimination (IDDE) Program per the requirements of the MS4 Permit. Included in this report is a copy of the current IDDE Ordinance (Attachment C)
2. Measurable Goal(s): Evaluate the existing IDDE Ordinance on an annual basis and revise, if needed, to meet the City's needs.
3. Documentation to be submitted with each annual report: The City will submit the updated IDDE Ordinance if revised during the reporting period. If the ordinance was not modified, a memo will be submitted stating no revisions to the ordinance were required during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: April 5, 2004
  - C. Frequency of actions: Annual
  - D. Month/Year of each action: December of each year
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): An effective IDDE ordinance is critical to enabling the City to ensure that illicit discharges can be eliminated in certain situations where education has not proven effective.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The ability to cease discharges of pollutants from non-exempt illicit discharges is critical to reducing pollutant loading to local streams and water bodies. As such, this BMP will be determined to be effective if the City maintains an illicit discharge prohibition ordinance throughout the duration of this permit. Additionally, the City will evaluate the ordinance once each year and revise the ordinance if deemed ineffective.

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**Appendix C: Illicit Discharge Detection and Elimination**

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**Best Management Practice (BMP) C-2**

1. Description of BMP: Outfall Map and Inventory – A) The City of Chickamauga initially developed a Storm Sewer System Map in 2007, which shows the location of all known outfalls and the names and locations of all waters of the State that receive discharges from those outfalls. A copy of the current outfall map is included as Attachment D. The City will either use in-house staff or hire an outside consulting firm to inventory and map 20% of the municipal storm sewer system in the summer of 2014. Regardless of mechanism, it is anticipated that this update will be completed by December 31, 2014 and will be submitted to EPD by the February 15, 2015. An additional 20% of the outfall map and inventory will be updated on an annual basis. In addition to the annual 20% mapping and inventory review, updates will occur as new structures are added, modified and/or removed to ensure it remains current and complete.
2. Measurable Goal(s): The City will maintain a map and inventory showing of all outfalls within the City limits and the names and locations of all waters of the State that receive discharges from those outfalls on an annual basis.
3. Documentation to be submitted with each annual report: The City will provide an updated inventory and map showing all stormwater outfalls and receiving waters to the EPD an annual basis.
4. Schedule:
  - A. Interim Milestone Dates: Prepare Storm Sewer System Infrastructure Inventory and Map Completed by December 2014.
  - B. Implementation Date: First outfall map prepared in 2007
  - C. Frequency of actions: After completion of first 5-year cycle, update on an annual basis, if needed
  - D. Month/Year of each action: Various
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator

6. Rationale for choosing BMP and setting measurable goal(s): A comprehensive map of the storm sewer system within the City will help the City of Chickamauga target outfalls with dry weather flows and other suspicious discharges for more in-depth inspection and monitoring, and will help coordinate management activities to remove illicit connections and track storm drain system maintenance.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Having a comprehensive map and inventory of the City's storm sewer system is critical to ensuring the system is functioning properly and to assess potential discharge of pollutants to nearby waters. This BMP will be determined to be effective if the City maintains an updated map and inventory of all known outfalls on an annual basis as demonstrated through submittal of a new map each year in the annual report.



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**Appendix C: Illicit Discharge Detection and Elimination**

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**Best Management Practice (BMP) C-3**

1. Description of BMP: Dry-weather Outfall Screening Program - The City will plan and conduct dry weather outfall screenings to identify illegal dumping and discharge of prohibited materials into the MS4 and local streams. Examples of potential illicit discharges in City of Chickamauga include: effluent from septic tanks; improper oil disposal; radiator flushing disposal; laundry wastewaters; spills from roadway accidents; and improper disposal of auto and household toxics. City representatives will screen at least 20% of the current outfall inventory for illicit discharges each year. This method will enable dry-weather screening of every outfall in the system at least one time in every five-year cycle. A copy of the City's current IDDE Procedures is included in Attachment E.
2. Measurable Goal(s): City representatives will utilize its IDDE Procedures to perform stream walks and screen at least 20% of the current outfall inventory for illicit discharges each year.
3. Documentation to be submitted with each annual report: Each year, City representatives will walk and screen for illicit discharges a minimum of twenty percent of all outfalls located within the City. All identified illicit discharges will be eliminated through education and/or enforcement, as needed. Copies of field inspection sheet, maps of streams, outfall screening locations and structure ID numbers, photographs, lab results and/or a description of actions taken to eliminate all identified illicit discharges will be included in each annual report submittal.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: April 2014
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: Various

5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
  
6. Rationale for choosing BMP and setting measurable goal(s): Pollutant from illicit discharges have been shown in EPA studies to be high enough to significantly degrade receiving water quality and threaten aquatic, wildlife, and human health. Regular inspection of the City's outfalls have proven to be an effective mechanism in eliminating pollutant discharges to the City's MS4 and local streams and ponds.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City will deem this BMP effective if 20% of all outfalls are screened each year and all identified illicit discharges are eliminated.

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**Appendix C: Illicit Discharge Detection and Elimination**

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**Best Management Practice (BMP) C-4**

1. Description of BMP: The City's current IDDE Procedures will be updated annually to reflect new state requirements and will be used to screen outfalls each year.
2. Measurable Goal(s): City representatives will update the IDDE Procedures to meet current state requirements on an annual basis, as needed, and follow these updated procedures to perform stream walks and screening for illicit discharges each year.
3. Documentation to be submitted with each annual report: Copies IDDE Procedures will be included in each annual report submittal on the year of their revision.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: April 2014
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: Various

5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
  
6. Rationale for choosing BMP and setting measurable goal(s): By utilizing the latest State requirements for its IDDE procedures the City will utilize best practices to identify illicit discharges within its outfalls. Regular inspection of the City's outfalls have proven to be an effective mechanism in eliminating pollutant discharges to the City's MS4 and local streams and ponds.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City will deem this BMP effective if applicable regulations have been reviewed each year and its IDDE procedures updated as required.

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**Appendix C: Illicit Discharge Detection and Elimination**

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**Best Management Practice (BMP) C-5**

1. Description of BMP: Public, Business and Government Employee Education and Inspections Program – Educating the general public, business owners and government workers can be very effective in reducing potential polluted stormwater runoff from commercial, industrial and public land uses. Under this BMP, the City will develop a list of commercial businesses, industries and public institutions located within the City limits that have potential for stormwater pollution (e.g., restaurants, car repair shops, city maintenance yards, etc. The City will perform on-site inspections to educate business owners/operators and government employees about pollution prevention opportunities on their property and place of work. Educational material from the Clean Water Campaign and other sources will be distributed during the inspections to reinforce concepts. Businesses found to contribute to non-point source pollution and unwilling to remove the pollutant source may be subject to enforcement under the City’s IDDE Ordinance. A copy of the current Business Inspection Checklist is included in this SWMP as Attachment F.
  
2. Measurable Goal(s): A minimum of 20% of all businesses, industries and public sites with the potential for polluted stormwater runoff will be inspected each year. All identified pollution prevention opportunities will be documented and brought to the attention of the owner/operator.
  
3. Documentation to be submitted with each annual report: A listing of all high priority businesses, copies of all business inspection checklists as well as selected photos of problem businesses will be included in each annual report submittal.
  
4. Schedule:
  - A. Interim Milestone Dates: Develop list of priority commercial businesses and industries by June 30, 2014.
  
  - B. Implementation Date: Begin inspections of priority public institution, commercial businesses and industries in July 2014
  
  - C. Frequency of actions: On-going
  
  - D. Month/Year of each action: Various

5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): Industries and businesses can introduce grease, oil, litter and/or other pollutants into nearby waterbodies. On-site inspections can be very effective at removing pollutants of concern through education and enforcement, as needed.
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Although not a direct indicator of water quality of streams within the City, it is believed that on-site inspections of priority businesses and education to owners/operators will have an intangible benefit on water quality through avoidance of illicit discharges and litter. For the purposes of the SWMP, this BMP will be deemed effective if 20% of all priority businesses are inspected at least once each year.

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**Appendix C: Illicit Discharge Detection and Elimination**

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**Best Management Practice (BMP) C-6**

1. Description of BMP: Complaint Response Program – An effective stormwater management program must be responsive to the needs of the community. The City will document all complaints and/or service requests received at the City related to inadequate erosion control, flooding, illegal dumping and other stormwater related issues. City staff will evaluate each one to determine prioritization and respond to all complaints within three business days. Actions taken for all complaints received will be tracked for internal planning purposes and to meet EPD reporting requirements. Written procedures for responding to complaints related to illicit discharges will be documented in the City's updated IDDE Procedures to be completed during 2014. A copy of the City's Citizen Complaint Procedures is included as Attachment G.
  
2. Measurable Goal(s): It is the goal of City to respond to all complaints or concerns related to inadequate erosion control, flooding, illegal dumping and other stormwater pollution issues within three business days. Actions taken as a result will be tracked for internal planning and submitted to EPD on an annual basis.
  
3. Documentation to be submitted with each annual report: The City will provide a summary of all complaints or concerns received related to polluted stormwater runoff and resulting actions taken for each reporting period.
  
4. Schedule:
  - A. Interim Milestone Dates: NOT APPLICABLE
  - B. Implementation Date: 2013
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: Various
  
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator

6. Rationale for choosing BMP and setting measurable goal(s): As residents and local business owners and operators learn more about the role of pollution prevention and stormwater management, it is expected that complaints and/or service requests will increase over time. The City needs an effective way to document all requests and respond in a timely manner to prevent pollution, flooding and more costly repairs later on.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. This BMP will be deemed effective if all complaints and/or concerns received by the City are investigated in a timely manner and appropriate action taken to resolve the issues.



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40 CFR Part 122.34(b)(4) Requirement: The permittee must develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Stormwater discharges from construction activity disturbing less than one acre must be included in the permittee's program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. The program must include:

- A) An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance;
- B) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices;
- C) 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;
- D) Procedures for site plan review which incorporate consideration of potential water quality impacts;
- E) Procedures for receipt and consideration of information submitted by the public; and
- F) Procedures for site inspection and enforcement of control measures.



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**Best Management Practice (BMP) D-1**

1. Description of BMP: Legal Authority – Adoption of an ordinance that effectively enables the City to implement the Erosion and Sedimentation Control (E&SC) Program. A copy of the current E&SC Ordinance is included in this report as Attachment H.
2. Measurable Goal(s): Evaluate the existing Erosion and Sedimentation Control (E&SC) Ordinance on an annual basis and revise, if needed, to meet the City's needs.
3. Documentation to be submitted with each annual report: The City will submit a copy of the updated E&SC Ordinance or a memo stating that the ordinance was not updated.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: July 5, 2010
  - C. Frequency of actions: Annual
  - D. Month/Year of each action: December of each year
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): An effective E&SC Ordinance is critical to enabling the City to ensure that inadequately controlled discharges can be eliminated in certain situations where education has not proven effective.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The ability to cease discharges of pollutants from construction sites is critical to reducing pollutant loading to local streams and water bodies. As such, this BMP will be determined to be effective if the City maintains an E&SC Ordinance throughout the duration of this permit. Additionally, the City will evaluate the ordinance once each year and revise the ordinance if deemed ineffective.

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**Best Management Practice (BMP) D-2**

1. Description of BMP: Development/Redevelopment Plan Review Program – The City of Chickamauga is a Local Issuing Authority who works in partnership with the local GA Soil and Water Conservation Commission (GSWCC) to review and approve erosion and sediment control plans for new development and redevelopment. Under this BMP, the City will collect complete sets of plans from applicants and forward the information to the GSWCC for review and approval. A copy of the current E&SC Plan Review Procedures used by the City are included as Attachment I.
2. Measurable Goal(s): Ensure that 100% of all erosion and sediment control plans will be submitted to GA Soil and Water Conservation Commission for review and approval prior to issuance of a land disturbance permit.
3. Documentation to be submitted with each annual report: The City will submit a summary of all development/redevelopment project plans reviewed by GSWCC and action taken for each review
4. Schedule:
  - A. Interim Milestone Dates: Interim Milestone Dates: Not Applicable
  - B. Implementation Date: Not Applicable
  - C. Frequency of actions: Updated, as needed
  - D. Month/Year of each action: Various
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): Lack of adequate planning, design, installation and maintenance of best management practices associated with new construction activities have caused significant impacts to Georgia's streams. Careful plan reviews and regular inspections of construction sites, especially during and after rain events, are key components of a successful erosion and sediment control program to protect local streams.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. It is the intent of this BMP to protect existing water quality. By ensuring that all construction projects include plans to prevent polluted stormwater runoff prior to land disturbance as required by the ordinance, the City believes that this BMP will provide a significant safeguard against potential water quality impacts. For the purposes of this SWMP, this BMP will be deemed effective if no land disturbance projects are initiated without first having an appropriate plan in place to ensure no polluted stormwater runoff will occur.

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**Best Management Practice (BMP) D-3**

1. Description of BMP: Site Inspections and Enforcement Program – The City of Chickamauga is a Local Issuing Authority who works in partnership with the local GA Soil and Water Conservation Commission (GSWCC) to review and approve erosion and sediment control plans for new development and redevelopment. Under this BMP, the City of Chickamauga will be responsible for all site inspections and enforcement activity at all construction projects within the City. All violations will be documented and appropriate enforcement actions taken. A summary of all plan review and site inspection activities will be reported to the District on a semi-annual basis, as required. A copy of the current E&SC Site Inspection Procedures are included as Attachment J.
2. Measurable Goal(s): 100% of all construction projects will be inspected by City staff or representatives. If a violation is suspected, it will be documented and appropriate action taken.
3. Documentation to be submitted with each annual report: The City will submit a summary of all site inspections and enforcement actions taken during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Develop procedures that delineate all required steps in the site inspection process by December 31, 2013.
  - B. Implementation Date: Implement site inspection procedures in January 2014.
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: Various
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): Construction sites have been shown to be a leading contributor of silting state waters adversely impacting water quality. After site planning, proper enforcement is critical for compliance with approved plans and state and local regulations.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. It is the intent of this BMP to protect existing water quality. By ensuring that all construction projects are meeting the requirements of the erosion and sediment control ordinance, the City believes this BMP will serve as an important safeguard against potential water quality impacts. For the purposes of this BMP, it will be considered effective if all sites are inspected on a regular basis and if violations are found, appropriate action taken.



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**Best Management Practice (BMP) D-4**

1. Description of BMP: Complaint Response Program - The City will document and respond to all public complaints on inadequate erosion and sediment control at construction sites. All complaints will be documented and responded to by City staff within 3 business days of receipt. A copy of the City's Citizen Complaint Procedures is included as Attachment G.
2. Measurable Goal(s): The City will document and take action on 100% of complaints within 3 business days of receipt.
3. Documentation to be submitted with each annual report: The City will provide a summary of all complaints or concerns received related to polluted stormwater runoff and resulting actions taken for each reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: Not Applicable
  - C. Frequency of actions: Updated as needed.
  - D. Month/Year of each action: Not Applicable
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): As residents and local business owners and operators learn more about watershed protection and stormwater management, it is expected that complaints and/or concerns will increase over time. Hopefully timely response and education will reduce the incidences of pollutant discharge over time. The City needs to respond in a timely manner to prevent pollution, flooding and more costly repairs later on.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. This BMP will be deemed effective if all complaints and/or concerns received by the City are investigated in a timely manner and appropriate action taken to resolve the issues.

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**Best Management Practice (BMP) D-5**

1. Description of BMP: GSWCC Certification Program – The City of Chickamauga is a Local Issuing Authority who works in partnership with the local GA Soil and Water Conservation Commission (GSWCC) to review and approve erosion and sediment control plans for new development and redevelopment. Under this BMP, all City staff and representatives involved in plan review and/or site inspection activities will be trained and certified in accordance with GSWCC requirements. The Public Works Director is currently certified by the GSWCC as is the City's current Stormwater Consultant.
2. Measurable Goal(s): 100% of City staff or representatives responsible for plan review and/or inspections at construction sites will be trained and certified in accordance with GSWCC requirements.
3. Documentation to be submitted with each annual report: Summary of the number and type of current certifications held by City staff and contractors involved in plan review and site inspections.
4. Schedule:
  - a. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: On-going
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: Various
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): It is critical that all personnel involved in construction activities be trained on proper erosion and sediment control policies and practices.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. It is the intent of this BMP to protect existing water quality. By ensuring that development plan reviewers and site inspectors are properly trained in E&SC requirements, the City believes that this BMP will provide a significant safeguard against potential water quality impacts. For the purposes of this SWMP, this BMP will be deemed effective if the City staff or contractors involved in development plan review and/or site inspections maintain current certification with the GSWCC.

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40 CFR Part 122.34(b)(5) Requirement: The permittee must develop, implement, and enforce a program to address stormwater runoff into the MS4 from new development and redevelopment projects, including projects less than one acre if they are part of a larger common plan of development or sale. You must:

- A) Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for your community;
- B) Use an ordinance or other regulatory mechanism to address post- construction runoff from new development or redevelopment projects; and
- C) Ensure adequate long-term operation and maintenance of BMPs.



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**Best Management Practice (BMP) E-1**

1. Description of BMP: Legal Authority – Adoption of an ordinance that effectively enables the City to implement the Post-development Stormwater Management Program. A copy of the current Post- development Stormwater Management Ordinance is included in this report as Attachment K.
2. Measurable Goal(s): Evaluate the existing Post-development Stormwater Management Ordinance on an annual basis and revise, if needed, to meet the City's needs.
3. Documentation to be submitted with each annual report: Updated Post-development Stormwater Management Ordinance if revised during the reporting period or a memo stating that the ordinance was not modified during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: April 5, 2004
  - C. Frequency of actions: Annual
  - D. Month/Year of each action (if applicable): December of each Year
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): The City needs to ensure all new stormwater facilities and infrastructure are designed and constructed according to the Georgia Stormwater Management Manual so that post-development stormwater impacts are minimized along with City's liability due to inadequate engineering designs and construction.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The ability to control large volumes of stormwater runoff and associated pollutants from impervious surfaces is critical to reducing pollutant loading and stream bank erosion to local streams and water bodies. As such, this BMP will be determined to be effective if the City maintains a Post-development Stormwater Management Ordinance throughout the duration of this permit. Additionally, the City will evaluate the ordinance once each year and revise the ordinance if deemed ineffective.



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**Best Management Practice (BMP) E-2**

1. Description of BMP: Inventory Stormwater Management Control Structures – The City will develop and maintain a current inventory of all public and private stormwater management control structures located within the City limits. The inventory will include various data such as: type of structure; location; owners name and contract information; date and results of all inspections; status of maintenance agreements; dates that certified letters were sent to property owners to maintain their stormwater management control structure; any enforcement action taken; etc. The purpose of this BMP is to ensure these structures operate effectively to mitigate the effect of high stormwater flows and resulting erosion on local streams.
2. Measurable Goal(s): Develop and maintain a current inventory and map of all public and private stormwater management control structures located within the City limits over a 5-year period. Update 20% of the inventory at least once each year and include it in the annual report.
3. Documentation to be submitted with each annual report: An updated inventory and map of post-development stormwater management structures.
4. Schedule:
  - A. Interim Milestone Dates: Complete Inventory and Map of 20% of Post-development Stormwater Management Structures by December 2014.
  - B. Implementation Date: Submit inventory and map of 20% of post-development stormwater Management Structures to EPD by February 15, 2015.
  - C. Frequency of actions: On-going
  - D. Month/Year of each action (if applicable): December of each year
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator

6. Rationale for choosing BMP and setting measurable goal(s): The City needs to ensure all stormwater management facilities perform as designed to protect downstream properties and infrastructure. The City can only do this by maintaining a current inventory and map of all stormwater management control structures and inspecting them on a regular basis.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The City needs to ensure all stormwater management facilities perform as designed to protect downstream properties and infrastructure. Thus maintaining a current inventory and map of these structures can facility inspection and resulting maintenance, when needed. For the purposes of this SWMP, this BMP will be deemed effective if the City can maintain and submit a current inventory and map of all stormwater management control structures.

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**Best Management Practice (BMP) E-3**

1. Description of BMP: Post-development Plan Reviews and Site Inspections – The City of Chickamauga is responsible for all post-development stormwater management plan reviews, site inspections and follow-up activities. The purpose of this BMP is to continue to review development plans and inspect sites with professional engineering services (as needed) to ensure proper design and construction of all stormwater infrastructure per the requirements set forth in the Georgia Stormwater Management Manual. Copies of the City’s Post-development Stormwater Management Plan Review Procedures (Attachment L).
2. Measurable Goal(s): 100% of all development plans will be reviewed to ensure compliance with the City’s post-development ordinance and P.E. certified as-builts obtained, and final site inspections completed prior to issuance of certification of occupancy (CO) at all construction sites applicable to this ordinance.
3. Documentation to be submitted with each annual report: Copies of all completed plan review checklist and P.E. certified as-builts for applicable construction projects that occurred during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: Not Applicable
  - C. Frequency of actions: Update development procedures as needed
  - D. Month/Year of each action: Not Applicable
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator

6. Rationale for choosing BMP and setting measurable goal(s): The City needs to ensure all new stormwater facilities and infrastructure are designed, constructed and maintained properly to protect properties downstream of the City infrastructure and private development from water quality and flooding impacts. By inspecting these facilities on a regular basis, the City will ensure that the maintenance needs of these structures are identified and followed, to the greatest extent possible.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Proper design, construction and maintenance of stormwater control structures (including green infrastructure/low-impact development projects) has proven to be critical to ensuring that these BMPs function as they were intended and downstream impacts are minimized. For the purposes of this SWMP, this BMP will be deemed effective if all structures are constructed properly and inspected on an annual basis.

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**Best Management Practice (BMP) E-4**

1. Description of BMP: Post-development Long-term Maintenance – The City of Chickamauga is responsible for maintenance of all publicly-owned stormwater management structures whereas private stormwater management structures are required to be maintained by the owner/operators of each BMP. Long-term maintenance of these facilities helps control the quantity and improves the quality of stormwater runoff to protect downstream water resources and infrastructure. To ensure long-term maintenance of private structures occur, the City requires owners of all new or retrofitted stormwater management control structures to sign and record a maintenance agreement with the City prior to issuance of a certificate of occupancy. The Post-development Ordinance includes enforcement provisions should private structures not be maintained as required. The City will inventory and map all post-development control structures. A copy of the Maintenance Agreement is included as Attachment M.
  
2. Measurable Goal(s): The City will require signed and County-registered maintenance agreements for all new/retrofitted stormwater management control structures. The City will also perform maintenance of all publicly-owned stormwater management control structures, as needed, and send letters to all owners/operators of all privately-owned structures requiring maintenance.
  
3. Documentation to be submitted with each annual report: The City will provide a list of public and private structures maintained during the reporting period. Also submitted will be the total number and copies of executed maintenance agreements obtained during the reporting period.
  
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  
  - B. Implementation Date: On-going
  
  - C. Frequency of actions: On-going
  
  - D. Month/Year of each action: Various

5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): The City needs to ensure all new stormwater facilities and infrastructure are designed, constructed and maintained properly so post-development stormwater impacts are minimized.
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Maintenance of stormwater management control structures is critical to ensuring long-term operation of the structures. As such, maintenance of these facilities will assist the City in protecting water quality in local streams from the stormwater impacts of the developments these structures serve. For the purposes of this SWMP, this BMP will be deemed if the City maintains all publicly- owned facilities and sends letters to owners of all privately-owned facilities requiring maintenance. Additionally, the City will provide a summary of all maintenance agreements obtained each year.

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**Best Management Practice (BMP) E-5**

1. Description of BMP: Green Infrastructure/Low-impact Development – The use of green infrastructure and low-impact development (GI/LID) techniques has proven useful in helping managing impacts of stormwater runoff to local streams as well as private/public infrastructure. Use of these structures will be encouraged however none have been constructed to date. The City is in the process of inventorying and mapping of all water quality– related green infrastructure/low-impact development structures located within the City limits. The inventory will include: structure ID, location; owner; type of structure (e.g. bioswales, pervious pavement, rain gardens, cisterns, and green roofs); etc.
2. Measurable Goal(s): The City will develop and maintain a current inventory of water quality-related GI/LID structures located within the City limits.
3. Documentation to be submitted with each annual report: An updated GI/LID inventory, including those structures added during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Complete Inventory and map twenty percent of all GI/LID structures by December 31, 2014.
  - B. Implementation Date: On-going
  - C. Frequency of actions: On-going
  - D. Month/Year of each action: Various
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): GI/LID structures can be effective mechanisms for reducing the impacts of stormwater runoff to downstream properties, infrastructure and water resources. They are especially useful in controlling smaller amounts of runoff close to the source

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. It is the intent of this BMP to protect existing water quality. By tracking the construction of these structures as well as encouraging their long-term maintenance through maintenance agreements.(if privately owned), the City believes that future impacts from development can be offset to a greater extent than historical development standards. For the purposes of this SWMP, this BMP will be deemed effective if the City maintains an inventory of every GI/LID structure constructed in the City.



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**Best Management Practice (BMP) E-6**

1. Description of BMP: Legal Authority – Development and adoption of an ordinance that effectively enables the City to control litter in all its forms including construction site wastes such as discarded building materials, concrete truck washout, chemicals, fuels, liter and sanitary waste at construction sites.
2. Measurable Goal(s): Adopt a litter ordinance and evaluate that ordinance on an annual basis and revise, if needed, to meet the City's needs.
3. Documentation to be submitted with each annual report: Updated Litter Ordinance if revised during the reporting period or a memo stating that the ordinance was not modified during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Develop and adopt ordinance by February 2, 2015
  - B. Implementation Date: After adoption
  - C. Frequency of actions: Annual
  - D. Month/Year of each action (if applicable): December of each Year
5. Person (position) responsible for overall management and implementation of the BMP: Jim Powell, Zoning Administrator
6. Rationale for choosing BMP and setting measurable goal(s): The City needs to ensure all construction sites are properly maintained and all site waste properly disposed. Improperly disposed construction site waste and litter can unnecessarily add pollutants and adversely impact stormwater quality.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The ability to control potential pollutants from construction sites is critical to reducing pollutant loading and stream bank erosion to local streams and water bodies. As such, this BMP will be determined to be effective if the City maintains and enforces a litter ordinance throughout the duration of this permit.

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**Appendix F: Pollution Prevention/Good Housekeeping  
For Municipal Operations**

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40 CFR Part 122.34(b)(6) Requirement: The permittee must develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Using training materials available from the USEPA and other organizations as guidance, the permittee must, as a part of this program, include employee training to prevent and reduce 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.

**BMP ID Number: F-1**

1. Description of BMP: Storm Sewer System Inventory and Map –The City is required to maintain a current inventory of storm sewer system infrastructure (e.g., catch basins; drop inlets; pipes; ditches; junction boxes; detention ponds; etc.). This BMP will focus on creating and updating the inventory and map on an annual basis and producing a “Storm Sewer System Mapbook” to enable the City to effectively implement all inspection and maintenance activities.
2. Measurable Goal(s): The City will maintain a current inventory and map of the MS4 control structures. At a minimum, the inventory and map must include catch basins, ditches (miles or linear feet), detention/retention ponds, and storm drain lines (miles or linear feet).
3. Documentation to be submitted with each annual report: (a.) A current inventory of storm sewer system infrastructure; (b.) The number and type of new structures added during the reporting period; and (c.) Maps of the storm sewer system.

4. Schedule:
  - A. Interim Milestone Dates: Develop Storm Sewer System Inventory and Map by December 31, 2014
  - B. Implementation Date: April 2014
  - C. Frequency of Actions: Update Inventory and Map on an annual basis, as needed.
  - D. Month/Year of Each Action: On-going
5. Responsible Party: Jim Powell, Zoning Administrator
6. Rationale: A current inventory and map of the City's storm sewer system is critical to proper planning and implementation of the City's Stormwater Inspections, Operations and Maintenance Program.
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Having a comprehensive map and inventory of the City's storm sewer system is critical to ensuring the system is functioning properly and to assess potential discharge of pollutants to nearby waters. For the purposes of this SWMP, this BMP will be deemed effective if the City maintains a current inventory, map and of all known MS4 structures known and maintained by the City. The inventory will also include private structures to the extent resources allow.

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**Appendix F: Pollution Prevention/Good Housekeeping  
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**BMP ID Number: F-2**

1. Description of BMP: Municipal Storm Sewer System (MS4) Inspection Program - This BMP will focus on performing inspections of public stormwater facilities and infrastructure within the City of Chickamauga per the City's MS4 Inspections Operations and Maintenance Procedures. The MS4 Inspections, Operations and Maintenance (IOM) Procedures ensure the system is maintained and functions properly over time. Elements of the IOM program have or will include: inspection/maintenance schedules and procedures for the entire stormwater system (e.g., catch basins; drainage swales; open channels; and storm sewer pipes); definition of the maintenance responsibility; level of service for the City (i.e., parts of the stormwater system and the types of service that the City is responsible for); policies and procedures to ensure maintenance and repair of public stormwater infrastructure as well as inspection forms to meet internal planning and reporting needs. City staff will be trained on how to implement the IOM Procedures, as needed. A copy of the current MS4 Inspections, Operations and Maintenance Procedures are included as Attachment N. These will be reviewed and updated as needed to meet EPD requirements in 2014 and resubmitted in the 2014 Annual Report.
  
2. Measurable Goal(s): Inspection results for a minimum of 100% of all stormwater control structures and 20% of all stormwater infrastructure during the reporting period.
  
3. Documentation to be submitted with each annual report: The number and percentage of structures inspected, and results of each inspection performed during the reporting period.
  
4. Schedule:
  - A. Interim Milestone Dates: Review and update the MS4 IOM Procedures to meet new permit requirements by December 2014.
  
  - B. Implementation Date: No Applicable
  
  - C. Frequency of Actions: Update procedures as needed
  
  - D. Month/Year of Each Action: On-going

5. Responsible Party: Jim Powell, Zoning Administrator
6. Rationale: Failure to provide effective maintenance can reduce the hydraulic capacity and pollutant removal efficiency of stormwater controls and conveyance systems. Established inspection and maintenance procedures for the City of Chickamauga storm sewer system will help maximize efficiency and minimize labor requirements.
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Regular inspections of the storm sewer system are critical to identifying maintenance and repair needs as well as illicit discharges to the system. For the purposes of this SWMP, this BMP will be deemed effective if the City inspects a minimum of 100% of all stormwater control structures and 20% of all stormwater infrastructure during the reporting period.

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**BMP ID Number: F-3**

1. Description of BMP: Municipal Storm Sewer System (MS4) Maintenance Program -This BMP will focus on performing necessary maintenance of public stormwater facilities and infrastructure within the City of Chickamauga per the City's MS4 Inspections Operations and Maintenance Procedures. This includes, but is not limited to, work orders generated from annual inspections and responses to complaints received from the general public, management and local officials. A copy of the current MS4 Inspections, Operations and Maintenance Procedures are included as Attachment N. These will be reviewed and updated as needed to meet EPD requirements in 2014 and resubmitted in the 2014 Annual Report.
2. Measurable Goal(s): The City will perform maintenance on public MS4 control structures and infrastructure.
3. Documentation to be submitted with each annual report: The City will provide work orders for all public stormwater facilities and infrastructure that were maintained and documentation of repairs completed by outside contractors.
4. Schedule:
  - A. Interim Milestone Dates: Review and update the MS4 IOM Procedures to meet new permit requirements by December 2014.
  - B. Implementation Date: No Applicable
  - C. Frequency of Actions: Update procedures as needed
  - D. Month/Year of Each Action: On-going

5. Responsible Party: Jim Powell, Zoning Administrator
6. Rationale: Failure to provide effective maintenance can reduce the hydraulic capacity and pollutant removal efficiency of stormwater controls and conveyance systems. Established inspection and maintenance procedures for the City of Chickamauga storm sewer system will help maximize efficiency and minimize labor requirements.
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Regular maintenance and repair of the storm sewer system prevents sediment and other pollutants from reaching local streams. Maintenance activities will be tracked over time. For the purposes of this SWMP, this BMP will be deemed effective if the City maintains a minimum of 100 percent of publicly owned control structures and 20% of the MS4 infrastructure identified as requiring maintenance during the reporting period.



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**BMP ID Number: F-4**

1. Description of BMP: Streets and Parks Maintenance Program – The City does not currently perform street sweeping but does utilize state workers to remove trash and other debris from City roads and yards (parks). All materials removed are documented and disposed in the County landfill. A copy of the current MS4 Inspections, Operations and Maintenance Procedures are included as Attachment N. These will be reviewed and updated as needed to meet EPD requirements in 2014 and resubmitted in the 2014 Annual Report.
2. Measurable Goal(s): All street and parking lot litter and other materials removed by City workers will be documented and reported on an annual basis.
3. Documentation to be submitted with each annual report: A summary of dates, locations and amounts of street and parking lot litter and other materials removed and properly disposed by City workers during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Review and update the MS4 IOM Procedures to meet new permit requirements by December 2014.
  - B. Implementation Date: No Applicable
  - C. Frequency of Actions: Update procedures as needed
  - D. Month/Year of Each Action: On-going
5. Rationale: An effective Streets and Parks Maintenance Program will prevent pollutants from entering the stormwater system and local streams.
6. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. Regular litter pickup from streets and other public areas prevents these materials from reaching local streams. Maintenance activities will be tracked over time. For the purposes of this SWMP, this BMP will be deemed effective if the City maintains a minimum of 100% of all streets and public parks at least once during the reporting period.



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**BMP ID Number: F-5**

1. Description of BMP: Employee Training Program – Continue development and implementation of a training program for City Employees to enhance understanding of the importance of stormwater management and how to implement the BMPs required by the City’s Stormwater Management Program. A small budget will be set aside to cover the cost of the proposed training for City Employees to ensure that they are able to attend the necessary training needed to perform the activities in this SWMP. If a required training opportunity is not identified, a stormwater consultant will be hired to conduct the necessary training on-site.
  
2. Measurable Goal(s): Every employee involved in the implementation of the City’s Stormwater Program will attend at least one training course by December 1<sup>st</sup> of each year.
  
3. Documentation to be submitted with each annual report: A summary listing the names of employees who received training as well as the date(s) and description of training(s) received during the reporting period.
  
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: On-going
  - C. Frequency of Actions: On-going
  - D. Month/Year of Each Action: Various
  
5. Responsible Party: Jim Powell, Zoning Administrator

6. Rationale: Quality training will help employees better understand the benefits of watershed protection and stormwater management. Specialized training will encourage employees to utilize new tools and techniques to reduce chemical and water consumption. This will achieve pollution prevention as well as cost savings through reduced labor and material inputs.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The number of events and attendees at stormwater training events will be tracked over time. For the purposes of this SWMP, this BMP will be deemed effective if every employee involved in the implementation of the City's Stormwater Program will attend at least one training event each year.

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**BMP ID Number: F-6**

1. Description of BMP: Waste Disposal Program – The MS4 Inspections, Operations and Maintenance Program specifies: how often waste collection occurs; who is responsible for waste collection and disposal; and the final location of waste collected from the City of Chickamauga. Under this BMP, the amount and final location of waste collected from the City streets, yards and MS4 will be tracked and reported to EPD on an annual basis. A copy of the current MS4 Inspections, Operations and Maintenance Procedures are included as Attachment N. These will be reviewed and updated as needed to meet EPD requirements in 2014 and resubmitted in the 2014 Annual Report.
2. Measurable Goal(s): The City will implement procedures regarding the proper disposal of waste removed from the MS4 as specified in the MS4 Inspections, Operations and Maintenance Procedures.
3. Documentation to be submitted with each annual report: A summary of the amount, type and final location of all waste collected from the City streets, parks and MS4 during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Review and update the MS4 IOM Procedures to meet new permit requirements by December 2014.
  - B. Implementation Date: No Applicable
  - C. Frequency of Actions: Update procedures as needed
  - D. Month/Year of Each Action: On-going
5. Responsible Party: Jim Powell, Zoning Administrator
6. Rationale: Collection and proper disposal of litter, vegetation, dirt and other debris from public property (including the MS4) will prevent it from entering the local streams and lakes, and improve the overall quality of life in the City of Chickamauga.

7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The amount of waste collected and disposed of properly will be tracked over time. For the purposes of this SWMP, this BMP will be deemed effective if waste streams identified in this BMP are disposed properly.

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**BMP ID Number: F-7**

1. Description of BMP: New Flood Management Projects – Because new regulations focus on both water quantity and quality issues, the City will assess proposed municipal flood management projects (e.g., detention ponds) for water quality impacts during the design phase per the City’s Post-development Stormwater Management Ordinance and the Georgia Stormwater Management Manual. Recommended improvements to the design and structure will be made based to the greatest extent practicable.
2. Measurable Goal(s): Ensure proposed flood management projects are assessed for water quality impacts during the design phase using the Georgia Stormwater Management Manual.
3. Documentation to be submitted with each annual report: The City will report the number of municipal flood management project plans assessed for water quality impacts during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: On-going
  - C. Frequency of Actions: On-going
  - D. Month/Year of Each Action: Various
5. Responsible Party: Jim Powell, Zoning Administrator
6. Rationale: Installation of additional water quality devices in proposed flood management projects will likely reduce the amount of pollution discharged into the storm sewer system and local streams.
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City’s MS4 Permit. The number of proposed flood management projects evaluated over time will be tracked. For the purposes of this SWMP, this BMP will be deemed effective if 100% of all new flood control projects are assessed for water quality impacts and inclusion of water quality BMPs.





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**BMP ID Number: F-8**

1. Description of BMP: Existing Flood Management Projects – Because new regulations focus on both water quantity and quality issues, the City will evaluate existing flood management projects (e.g., detention ponds) to maximize their effectiveness in controlling flooding and reducing pollutant loading to nearby streams and lakes. A Water Quality Improvement Worksheet will be used to evaluate all existing public stormwater control structures to determine if enhancement of the structure could reduce flooding and improve stream health downstream. Once all facilities are evaluated, a plan for improvement will be developed and implemented based on various factors such as: threat to environmental and public health, cost; and availability of resources. A copy of the worksheet is included as Attachment O.
2. Measurable Goal(s): The City will conduct an assessment of existing publicly-owned flood management projects for potential retrofitting to address water quality impacts in accordance with the procedures in the SWMP. Information on any assessment activities conducted during the reporting period will be submitted in each annual report.
3. Documentation to be submitted with each annual report: Provide information on any assessment activities conducted and a description of all improvements made to existing and proposed structures that occurred during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: On-going
  - C. Frequency of Actions: Annual
  - D. Month/Year of Each Action: Various
5. Responsible Party: Jim Powell, Zoning Administrator

6. Rationale: Retrofitting existing stormwater management facilities with water quality devices and installing additional water quality devices in new structures will help reduce the amount of pollution discharged into the storm sewer system and local streams.
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. The number of projects evaluated and retrofits installed over time will be tracked. For the purposes of this SWMP, this BMP will be deemed effective if at least one existing flood control structure is assessed per year for water quality impacts and inclusion of water quality BMPs.

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**BMP ID Number: F-9**

1. Description of BMP: Municipal Facility Inspection and Maintenance Program – City facilities and operations must comply with all stormwater ordinances similar to private facilities and operations. Under this BMP, compliance assessment of all municipal facilities and operations with potential for polluted stormwater runoff will be inspected on an annual basis (more if needed). All results will be documented and used to generate work orders and plan future training programs for long-term compliance. A Municipal Inspection Checklist is included in this report as Attachment P. A list of municipal facilities will be compiled and provided in the next annual report to be submitted in February 2015.
2. Measurable Goal(s): 100% of all pollutant generating municipal facilities and operations will be evaluated at least once per year to identify opportunities to reduce/eliminate polluted stormwater runoff. All results will be documented and used to generate work orders for required maintenance activities and to plan future training programs for long-term compliance.
3. Documentation to be submitted with each annual report: An inventory of all municipal facilities with the potential to cause pollution and the results of all inspections conducted during the reporting period.
4. Schedule:
  - A. Interim Milestone Dates: Not Applicable
  - B. Implementation Date: On-going
  - C. Frequency of Actions: Annual
  - D. Month/Year of Each Action: Not Applicable
5. Responsible Party: Jim Powell, Zoning Administrator

6. Rationale: Some municipal facilities and/or operations (e.g., engine maintenance) can produce polluted stormwater runoff that impacts local water resources. It is critical that the City serve as a model for compliance with stormwater regulations and stewardship of local water resources.
  
7. How you will determine whether this BMP is effective in reducing pollution to stormwater in accordance with Part 5.1.4 of the Permit: This BMP is a required activity per the City's MS4 Permit. For the purposes of this SWMP, this BMP will be deemed effective of all municipal facilities and operations are inspected at least once each year, results documented and work orders completed to eliminate identified pollution prevention challenges.

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**Appendix G: Enforcement Response Plan**

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1. The MS4 must develop and implement an Enforcement Response Plan (ERP) that describes the action to be taken for violations of the Storm Water Management Program. The ERP must be completed and submitted with the second annual report following permit issuance, February 15, 2015.

Final completion date: \_\_\_\_\_

Date of submittal to EPD: \_\_\_\_\_

2. In accordance with Part 4.3 of the NPDES Permit, the ERP must include escalating enforcement responses for repeat and continuing violations. At a minimum, the ERP must address the following categories (refer to Part 4.3 of the NPDES Permit for more detail):
  - Names of ordinances and citations;
  - Types of enforcement mechanisms;
  - Description of the use of these enforcement mechanisms;
  - Time frames; and
  - Description of the tracking and reporting mechanism.



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**Appendix H: Impaired Waters Protection Plan**

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1. Population at the time of designation: The City of Chickamauga's population was 3,121 in 2012

If the population is less than 10,000, then see items #2 and #3 below.

If the population exceeds 10,000, then see items #4 and #5 below.

2. If the population is less than 10,000, then the MS4 must develop an Impaired Waters Plan (see Part 4.4.1 of the NPDES Permit) including:
- A list of impaired waters and the pollutant(s) of concern;
  - A map showing the location of the impaired waters and all identified MS4 outfalls located on the impaired waters or occurring within one linear mile upstream of the waters;
  - BMPs that will be implemented to address each pollutant of concern; and
  - A schedule for implementing the BMPs.
3. The Impaired Waters Plan must be submitted with the annual report due February 15, 2015.

Final completion date/date of submittal to EPD: \_\_\_\_\_

4. If the population exceeds 10,000, then the MS4 must develop an Impaired Waters Plan/Monitoring and Implementation Plan (see Part 4.4.2 of the NPDES Permit) including:
- A list of impaired waters and the pollutant(s) of concern.
  - A Monitoring and Implementation Plan, that includes:
    - a. Sample location;
    - b. Sample type, frequency, and seasonal considerations;
    - c. Monitoring implementation schedule;
    - d. A map showing the location of the impaired waters and all identified MS4 outfalls located on the impaired waters or occurring within one linear mile upstream of the waters or a schedule for confirming those outfalls; and
    - e. Description of proposed BMPs.
  - Description of the method used to annually assess data trends for each pollutant of concern.

5. The Impaired Waters Plan/Monitoring and Implementation Plan must be submitted with the annual report due February 15, 2015.

Final completion date/date of submittal to EPD: \_\_\_\_\_