



# STORM WATER MANAGEMENT PROGRAM PLAN

**City of Fultondale**  
**Permit # ALR040037**  
**March 2023**

## **ABSTRACT**

The Storm Water Management Program Plan (SWMPP) is a guidance document to direct the City of Fultondale in complying with its General National Pollution Discharge Elimination System (NPDES) permit requirements.

City of Fultondale  
Jefferson County Department of Health  
Storm Water Management Authority, Inc.

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**Appendix B: Illicit Discharge Detection and Elimination (IDDE)**

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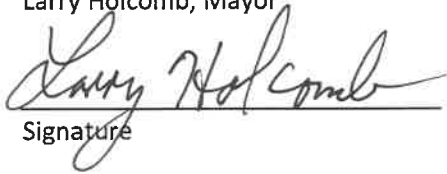
**Appendix E: Pollution Prevention/Good Housekeeping for Municipal Operations**

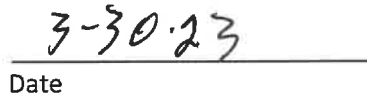
## General Information

### Signatory Requirements

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information 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.

Larry Holcomb, Mayor

  
Signature

  
Date

Address: PO Box 699  
Fultondale, AL 35068  
Phone: (205) 841-4481

## Overview

The City of Fultondale's Storm Water Management Program Plan (SWMPP) is a guidance document to direct the city efforts in a timely manner to accomplish the requirements of the Permit. The SWMPP will apply to the duration of one year starting on April 1<sup>st</sup> and ending on March 31<sup>st</sup> of the following year. The proposed SWMPP for the current year will be turned in on May 31<sup>st</sup> along with the Annual Report.

The City of Fultondale, located within Jefferson County, has a construction site storm water runoff program to control erosion and sedimentation. This program is applicable to all construction sites regardless of size.

## Program Background

In the 1987 amendments to the Clean Water Act (CWA), Congress directed the United States Environmental Protection Agency (EPA) to develop a phased approach to controlling storm water discharges under the National Pollutant Discharge Elimination System (NPDES) program. This action was based, in part, on growing evidence of the impact storm water from urban environments on water quality. According to the 2004 National Water Quality Inventory (a biannual report to Congress) roughly 40% of the Nation's waters were unable to fully support their designated beneficial uses (e.g. fishable, swimmable, etc.). The information provided by the states for the inventory indicates that 44% of the Nation's rivers, 64% of lakes, and 30% of estuaries and coastal waters are water quality impaired.

In 1990, EPA promulgated regulations for establishing water quality-based municipal storm water programs to address storm water runoff from certain industrial and construction activities and from medium and large municipal separate storm sewer systems (MS4s) serving populations of 100,000 or greater. These Phase I regulations were incorporated into the existing NPDES permit rules that address point source dischargers. As a result, urban nonpoint source runoff became regulated as a point source. In 1999, EPA promulgated regulations to address storm water runoff from small MS4s; these are Phase II regulations.

The Alabama Department of Environmental Management (ADEM) presently has primary jurisdiction over the permitting and enforcement of the Storm Water Program for Alabama. In 2011, the City of Fultondale became a Phase II MS4 (General NPDES Permit No. ALR040037). The City joined Storm Water Management Authority, Inc. (SWMA) as a member city in 2021. Jefferson County Department of Health (JCDH) is on contract with SWMA to fulfill certain components of the storm water permit. On October 1, 2021, Fultondale's reissued Phase II Permit became effective and will expire September 30<sup>th</sup>, 2026 **(Appendix A)**.

## MS4 Characterization

The City of Fultondale covers approximately 12.3 square miles. Population, as measured in the 2020 Census, is approximately 9,876 people with an overall population density of approximately 803 people per square mile. Municipalities immediately adjacent to the City of Fultondale include the City of Gardendale (population of 16,044) to the north and the Cities of Tarrant (population of 6,124) and Birmingham (population of 200,733) to the south.

The land use in the City, based on the United States Geological Survey (USGS) data are as follows:

Industrial	~ 1%
Commercial	~ 3%
Residential	~ 32%
Rural	~ 64%

A map showing the corporate limits for the City of Fultondale and the urbanized area is shown below.

The Fultondale area receives approximately 55 inches of rainfall annually. Rainfall tends to be evenly distributed throughout the year with drier periods occurring during late summer and early fall. Storm water runoff from the City of Fultondale discharges into three receiving streams:

- Fivemile Creek
- Black Creek (tributary of Fivemile Creek)
- Black Creek (tributary of Cunningham Creek)

Black Creek (tributary to Cunningham Creek) is a small stream that crosses the City of Fultondale's MS4 boundary northeast of downtown, roughly between Carson Road and Indian Valley Road. Black Creek is impaired and listed for pH from its confluence with Cunningham Creek to its origin. It was listed on the 2014 303(d) list and a Total Maximum Daily Load (TMDL) was established in August 2019. The stream reach within the MS4 boundary is just over one mile in length and very near the origin of the stream. Approximately 911 acres of Fultondale's MS4 drains to this Black Creek. Of that area, approximately 3% is classified as urban.

There is a history of mining activities in the Black Creek watershed. Abandoned mines can contribute significant amounts of acid mine drainage, which causes low pH in surface and subsurface water.

























## Post-Construction Storm Water Management in New Development and Redevelopment

The City of Fultondale must have a program that addresses storm-water runoff after completion of a qualifying construction project. Post-construction storm water management refers to the structural and non-structural controls that manage storm water after development and re-development of the property. Such practices as low impact development and green infrastructure can help obtain permanent storm water management over the life of the property's use. The post construction controls should be considered during the initial site development planning phase.

### Program BMPs

1. The Permittee must develop and institute the use of an ordinance or other regulatory mechanism to address post-construction runoff from qualifying new development and redevelopment projects. The ordinance must have the following:
  - a. 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.
  - b. The Permittee must require adequate long-term operation and maintenance of BMPs.
  - c. The Permittee shall perform or require the performance of post construction inspections, at a minimum of once per year, to confirm that post-construction BMP's are functioning as designed.

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
General Public	Post-Construction Ordinance - 660	Completed	City of Fultondale

The City of Fultondale will keep records of the post-construction inspections.

Documents	Status	Location
Site Plan Review and Approval Protocol (Section 4 of Post-Construction Ordinance); (Commercial Site Plan Review and Evaluation)	Completed	Appendix D; Appendix C
Post-Construction Storm Water Design Review and Certification Protocol (Sections 4.1 and 5 of Post-Construction Ordinance)	Completed	Appendix D
Post-Construction Inspection Protocol (Sections 4.2 and 4.3 of Post-Construction Ordinance)	Completed	Appendix D

2. The Permittee must actively encourage LID and Green Infrastructure.

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
Landowners and Developers of qualifying sites	Distribute three handouts on LID and GI with the land disturbance permit. Applicants will sign an acknowledgement of receipt statement	As needed	City of Fultondale

3. The Permittee shall perform or require the performance of post construction inspections.

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
Qualifying sites	Inspect post-construction BMPs	Annually	City of Fultondale or property owner

## Pollution Prevention/Good Housekeeping for Municipal Operations

The City of Fultondale shall develop, implement, and maintain a program that will prevent or reduce the discharge of pollutants in storm water run-off from municipal operations to the maximum extent practical.

### Program BMPs

1. Develop and maintain an inventory of all municipal facilities, including municipal facilities that have the potential to discharge pollutants via storm water runoff (Appendix E)

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
Municipal Personnel	Review and maintain inventory of all municipal facilities	Ongoing	City of Fultondale

2. Evaluation of the effectiveness of the BMP's to reduce litter, floatables, and debris from entering the MS4.

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
General Public	Complete a comparison of the five year permit period for the amounts of litter, floatables and debris removed from the MS4 annually	Five years	City of Fultondale

The City currently has litter pick-up, provides trash receptacles at municipal sites and has installed anti-litter signage along its roadways and parks. The program effectiveness will be determined by the increase or decrease in the amounts of litter, floatables and debris removed from the MS4 each year for a five-year period. The BMPs will be reviewed annually and adjusted as needed.

3. Develop a Standard Operating Procedures (SOP) detailing good housekeeping practices to be employed at appropriate municipal facilities and during municipal operations that may include, but not limited to, the following:
  - a. Equipment washing
  - b. Street sweeping
  - c. Maintenance of municipal roads including public streets, roads, and highways, including but not limited to unpaved roads, owned, operated, or under the responsibility of the Permittee
  - d. Storage and disposal of chemicals, Pesticide, Herbicide and Fertilizers (PHFs) and waste materials
  - e. Vegetation control, cutting, removal, and disposal of the cuttings.
  - f. Vehicle fleets/equipment maintenance and repair
  - g. External Building maintenance
  - h. Materials storage facilities and storage yards.

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
Municipal Personnel	Fultondale's SOP Manual (Appendix E)	Currently in place; Update as needed	City of Fultondale

4. A program for inspecting municipal facilities for good housekeeping practices, including BMPs. The program shall include checklists and procedures for correcting noted deficiencies

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
Municipal Personnel	Fultondale's SOP Manual And SWMA's Storm water Online Activity Record(SOAR) for record keeping	Annually	City of Fultondale

5. A training program for municipal facility staff in good housekeeping practices and training schedule

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
Municipal Personnel	Training session consisting of video and presentation about SOPs. The training will be documented using sign-in sheets	Annually	City of Fultondale

## Monitoring and Reporting

Black Creek (tributary to Cunningham Creek) is a small stream that crosses the City of Fultondale's MS4 boundary northeast of downtown, roughly between Carson Road and Indian Valley Road. Black Creek is impaired and listed for pH from its confluence with Cunningham Creek to its origin. It was listed on the 2014 303(d) list and a Total Maximum Daily Load (TMDL) was established in August 2019.

### Program BMPs

6. Develop a monitoring program for TMDL waters.

Target Audience	Measurable Goal/Method	Proposed Schedule	Responsible Party
General Public	Sample pH	Quarterly	JCDH