

City of Fultondale

1210 Walker Chapel Road
P.O. Box 699
Fultondale, Al 35068



Stormwater Management Program Plan (SWMPP)

NPDES Permit ALR040037

Revised May 31, 2017

Prepared By:

VOLKERT

7110 University Court, Montgomery, Alabama 36117

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1.0 Regulatory Overview

1.1 City of Fultondale's NPDES Permit

The City of Fultondale was issued its current NPDES Permit for discharges from regulated small municipal separate storm sewer systems (ALR040037) by the Alabama Department of Environmental Management (ADEM) on September 13, 2016. The permit was made effective on October 1, 2016. A revised Stormwater Management Program Plan (SWMPP) was submitted by the City in January of 2017 to address changes in the new permit. This SWMPP is an update to the January, 2017 Plan.

As a condition of this permit, "The permittee is required to develop, revise, implement, maintain and enforce a stormwater management program (SWMP) which shall include controls necessary to reduce the discharge of pollutants from its MS4 consistent with Section 402(p)(3)(B) of the Clean Water Act and 40 CFR Part 122.30-122.37. These requirements shall be met by the development and implementation of a stormwater management program plan (SWMPP) which addresses the best management practices (BMPs), control techniques and systems, design and engineering methods, public participation and education, monitoring, and other appropriate provisions designed to reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP)".

NPDES Permit ALR040037 is included in Appendix A.

1.2 MS4 Jurisdictional Boundary

NPDES Permit ALR040037 was triggered by the City of Fultondale being designated as a Municipal Separate Storm Sewer System, or MS4. This designation is due to Fultondale being a part of the larger urbanized area of Jefferson County.

Fultondale's MS4 boundary is within Jefferson County, Alabama. It is bordered by the City of Gardendale to the north, Tarrant and Birmingham to the south, and largely unincorporated areas to the east and west. Approximately 12.3 square miles of residential, commercial, industrial, undeveloped lands and streams make up the MS4 boundary (shown on map in Appendix B).

Population in the City as defined by the 2010 Census is approximately 8,387 people. The overall population density is approximately 681 people per square mile. The land uses in the City, based on USGS data, are as follows:

- Industrial: < 1%
- Commercial: 3%
- Residential: 32%
- Rural: 64%

1.3 Watershed Information

The City of Fultondale 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. Stormwater runoff from the City of Fultondale discharges into three primary receiving streams: Fivemile Creek; a named Black Creek that flows from east to west through the City and into Fivemile Creek; and another designated Black Creek that flows from south to north across City boundaries east of the more urbanized areas and into Cunningham Creek. This second Black Creek is listed for pH from its confluence with Cunningham Creek to its origin. It was listed on the 2014 303(d) list and remains on the 2016 listing. A segment of this impaired Black Creek runs across the City limits for approximately one mile at the upper reaches of its length.

Section 303(d) of the Clean Water Act (CWA), as amended by the Water Quality Act of 1987, and the USEPA Water Quality Planning and Management Regulations (40 CFR 130) require states to identify waterbodies not in compliance with the water quality standards applicable to their designated use classifications. Section 303(d) then requires that total maximum daily loads (TMDLs) be determined for all pollutants causing violation of applicable water quality standards in each identified segment. A TMDL has yet to be created for Black Creek in this area.

A map showing the impaired Black Creek in relation to the Fultondale City limits is included in Appendix B.

2.0 SWMPP Development and Maintenance

2.1 SWMPP Components

Part III of the Permit requires that the Permittee develop and implement a stormwater management program plan that includes the following five minimum stormwater control measures:

1. Public Education and Public Involvement
2. Illicit Discharge Detection and Elimination (IDDE) Program
3. Construction Site Stormwater Runoff Control
4. Post-Construction Stormwater Management in New Development and Re-Development
5. Pollution Prevention/Good Housekeeping for Municipal Operations

Program details are described with target audiences, measures of effectiveness, and responsible City departments in Section 3.0 below.

2.2 SWMPP Review and Updates

The Stormwater Management Program Plan will be reviewed by the City annually, at a minimum. Any necessary updates will likely be performed in conjunction with the preparation of the Annual Report required by the permit.

It is the City's intent to solicit and receive public input regarding the SWMPP and its implementation continually. It is anticipated that the SWMPP will be modified annually, accommodating feedback and adjusting as practices are evaluated for effectiveness and practicability.

This SWMPP is an update to the plan created in January of 2017. The updates are to provide clarity in some areas and to also address effectiveness and practicability in others.

2.3 Annual Reports

Part VI of the Permit outlines the annual reporting requirements for the program. The defined permit year and reporting period is April 1st to March 31st. Annual reports are required to be submitted to ADEM no later than May 31st following the reporting period.

Annual Reports will include:

- A list of contacts and responsible parties
- An overall evaluation of Fultondale Stormwater Management Program
- A narrative report of the required minimum control measures

- A summary table of controls that are planned for the next reporting cycle
- The results of related data collected and analyzed during the reporting period
- A notice of reliance on another entity to satisfy any permit obligations
- The results of water quality monitoring
- Certification

2.4 Recordkeeping

The SWMPP will be retained for at least five years after coverage under the permit is terminated. The following records shall be maintained for at least three years following termination of permit coverage:

- Records of all monitoring information
- Copies of all reports required by the permit
- Records required by the permit
- Records of all other data required by or used to demonstrate compliance with the permit

Documentation and other records used for demonstrating permit compliance will be maintained in the Department of Inspections and Permits in electronic and paper format.

2.5 Responsibilities

The Fultondale Inspections and Permits Department is responsible for the creation, coordination, and implementation of the SWMPP. Coordination between City departments is required for successful and complete implementation of the plan. A summary of assignment of department responsibility for specific measures is included in Appendix E.

Jefferson County operates and maintains the sanitary sewer system within the City of Fultondale. The Jefferson County Environmental Services Department's operation and maintenance of the sewer system is a component of the City of Fultondale's Pollution Prevention and Good Housekeeping control measure. Jefferson County's emergency response for sewer leaks is a component of the City's Illicit Discharge Detection and Elimination control measure.

The city relies on ADEM for the setting of standards for appropriate erosion controls sediment controls for qualifying construction sites and for enforcement of such controls. The City requires developers to obtain coverage under ADEM's construction general permit when



disturbance thresholds are met.

Comments and questions regarding this plan may be directed to Mr. Glen Williams of the Fultondale Inspections and Permits Department using the following contact information:

102 West Main Street
Fultondale, AL 36067

(205) 841-8306
GWJRFcity@gmail.com

2.6 Legal Authority and Enforcement

Below is a summary of the current ordinances, municipal code, and regulations related to MS4 management. These ordinances are provided in Appendix C.

Ordinance 616 Erosion and Sedimentation Control was passed March 2013 to address erosion and sedimentation control, illicit connections and improper disposal, and enforcement and abatement per NPDES permit number ALR040037 that became effective February 2011.

Ordinance 217, Subdivision Regulations was passed November 1970. Article 4 describes drainage requirements for developments within the City of Fultondale

Ordinance 410, Weeds Inoperable Motor Vehicles and Litter was passed April 1993 to address weeds, inoperable motor vehicles and litter.

3.0 Minimum Control Measures

Part III.A of the City's NPDES permit requires the development, implementation, revision, and maintenance of a stormwater management program to reduce the discharge of pollutants into local waterways and streams. The City's program is governed by this plan, the SWMPP, which establishes minimum pollution control measures in five general areas: public education and public involvement; illicit discharge detection and elimination; construction site stormwater runoff control; post-construction stormwater management; and pollution prevention/good housekeeping for municipal operations.

A description for each control measure is provided below. Practice goals are also summarized with deadlines/frequencies in Appendix E.

3.1 Public Education and Public Involvement

Public education and public involvement is one of the main focus areas for the City during this permit term. Internal and External communication is vital to a successful and effective program. The primary targeted audience for this measure includes: *the general public, including those who maintain yards, vehicles, and businesses, or visit public places; developers and property managers; contractors and engineers; and City staff.*

Primary goals of this measure are to: bring awareness to the City's stormwater management program; provide contact information for primary stormwater personnel; solicit concerns and suggestions; provide mechanisms for the reporting of suspected illicit discharges and construction site water quality issues; and provide general education regarding potential impacts to water quality.

3.1.1 Stormwater Management Program Plan (SWMPP)

The SWMPP is considered a living document and will be reviewed annually and likely updated annually to improve upon its effectiveness, applicability, and practicability. Communication and collaboration will be required of both internal and external stakeholders.

Practice Measure: *review annually, update if necessary*

Responsible Department: *Inspections and Permits*

3.1.2 SWMP Annual Report

The defined permit year and reporting period is April 1st to March 31st. Annual reports are required to be submitted to ADEM no later than May 31st following the reporting period.

Practice Measure: *create and submit to ADEM annually*

Responsible Department: *Inspections and Permits*

3.1.3 Stormwater Webpage

The City's Stormwater Program webpage will be an effective tool for educating and promoting involvement of the public. As the webpage improves over time, it will include the following information:

- A brief description of federal and state requirements regarding municipal stormwater management
- Brief descriptions of the City's stormwater management program and plan
- An invitation and mechanism for submitting concerns or questions regarding the City's stormwater program, including possible illicit discharges and construction stormwater concerns
- Contact information for City stormwater personnel
- Links to NPDES permit-related documents such as –
 - The NPDES permit
 - The 2017 Annual Report
 - The updated SWMPP

Practice Measure: *review annually, update if necessary*

Responsible Department: *Inspections and Permits*

3.1.4 Printed Stormwater Materials

Printed materials will be made available to the public by pick-up at public facilities such as City Hall and the Public Library, and through hand-outs at events such as Council meetings and the Founder's Day Festival. Other printed materials will be posted in public places. Children's Park is one example posting location.

Practice Measure: *distribute and post 100 pieces annually*

Responsible Department: *Inspections and Permits*

3.1.5 Stormwater Presence at the Founder's Day Festival

Fultondale's Founder's Day is a community event that draws many of the target audience for the City's public education and involvement efforts. The City will provide knowledgeable staff at the booth as well as educational materials.

Practice Measure: *provide an awareness booth annually*

Responsible Department: *Inspections and Permits*

3.1.6 City Council Involvement

City Council meetings will be used to bring awareness to government leadership as well as involved citizens and business people attending the meetings. Awareness and invitation to participate in the work of the City stormwater management program will be provided.

Practice Measure: *statement and opportunities for involvement provided annually*

Responsible Department: *Inspections and Permits*

3.1.7 Volunteer Groups

Fultondale is a stewardship-minded community. The City will use this characteristic to solicit volunteers from different groups. Local social and school clubs and groups, as well as local Boy and Girl Scout Troops are potential partners.

Practice Measure: *invite one new volunteer group to partner each year*

Responsible Department: *Inspections and Permits*

3.1.8 Non-Development Stormwater Ordinances

Fultondale maintains ordinances that can impact water quality. Some of these address construction and post construction related to new and re-development. Those are addressed later. All ordinances stormwater-related ordinances not specifically related to new or redevelopment will be reviewed periodically, and updated if necessary.

Practice Measure: *review annually, update if necessary*

Responsible Department: *Inspections and Permits*

3.1.9 Litter and Pet Waste Station Signage

Signs are provided and maintained in higher-use areas where litter and pet wastes could potentially enter local waters. The City is dedicated to maintaining and supplementing these signs when necessary. The City will also continue to allow businesses to sponsor or donate stations and signage in exchange for limited advertising in public areas.

Practice Measure: *inspect all twice per year, replace/supplement if necessary*

Responsible Department: *Parks and Recreation*

3.2 Illicit Discharge Detection and Elimination (IDDE)

This measure involves both technical data and an educated staff. The collection of outfall location and discharge data, and staff awareness training are priority focus areas for this permit term. The primary target audience for this measure includes: *City staff; ADEM; and those who may be identified as having responsibility for sources of illicit discharges.*

3.2.1 Outfall Inventory and Mapping - planning

Existing location data exists for outfalls in the City. This information is dated and is in need of updating. A map and a listing of all known outfall locations in the City are included in Appendix B. Fultondale has requested that Volkert, Inc. begin reviewing the existing data and formulating a plan for updating the mapping data and screening the outfalls.

Practice Measure: *develop a plan for action by June 30, 2017*

Responsible Department: *Inspections and Permits*

3.2.2 Outfall Inventory and Mapping – review and update

Once per permit term, the City will review and update its inventory of outfalls. This will likely be performed with required outfall screening as discussed below. The City has requested that Volkert, Inc. begin mapping efforts in the late Fall of 2017.

Practice Measure: *review and update mapping once per permit term*

Responsible Department: *Inspections and Permits*

3.2.3 Outfall Screening - planning

All locations of discharges of stormwater from the City must be inspected at least once per permit term for the presence or absence of illicit discharges. An initial screening has not yet formally taken place in Fultondale. The City has requested that Volkert, Inc. create a plan with procedures for carrying out the work of both identifying and eliminating illicit discharges. The plan will be based on The Environmental Protection Agency's latest *Illicit Discharge Detection and Elimination Guidance Manual for Program Development and Technical Assessments*.

Practice Measure: *develop plans and procedures for outfall screening by June 30, 2017*

Responsible Department: *Inspections and Permits*

3.2.4 Outfall Screening - execution

Late Fall is an ideal time of the year in Alabama to perform outfall screening for illicit discharges. With scarce rainfall, illicit indicators are more likely to be present, and the thinned vegetation helps with locating and observing outfall locations. Screening for this permit term will begin in the Fall of 2017, with the outfall mapping effort. The goal for 2017 is to formally screen more than 25% of the outfall locations. City staff are being trained to informally inspect outfall locations as they carry out their everyday duties.

Practice Measure: *screen 25% of outfall locations annually*

Responsible Department: *Inspections and Permits*

3.2.5 IDDE Awareness Training

City staff are being trained to identify and report potential illicit discharges. This training is a part of a series of training topics that have been included with regular safety training meetings for public works and parks department staff.

Practice Measure: *provide IDDE training to appropriate staff once per year*

Responsible Department: *Public Works, Parks and Recreation*

3.3 Construction Site Stormwater Runoff Control

Fultondale approaches construction stormwater management at both the planning/design and at the implementation/construction stages of development. The City has equipped itself with an ordinance, a plan review process, and site inspection program to verify that developers and contractors are minimizing water quality impacts associated with construction activities to the maximum extent practicable. The primary target audience for this measure includes: *developers; engineers; and contractors.*

3.3.1 Plan Review for New and Redevelopment - Construction

City Ordinance 616 requires developers to submit copies of ADEM NPDES permit authorization, and associated notice of intent and CBMPP Plans prior to commencing land disturbing activities within city limits. A City building permit is required for land disturbing activities not covered under the ADEM permit. Site plans are reviewed by the City's engineer, for compliance with the City's permit and ordinances. The City's current standard operating procedure for reviewing post-construction stormwater practices for new and redevelopment plans is included in Appendix D.

Practice Measure: *review plans as submitted*

Responsible Department: *Inspections and Permits*

3.3.2 Construction Site Inspection and Reporting Procedures

City Ordinance 616 authorizes construction site inspections by City inspectors and provides enforcement remedies for noncompliance. The City performs periodic site inspections on construction sites that have been issued land disturbance permits.

It is important for the City to periodically review and update its inspection and reporting procedures to ensure effectiveness.

Practice Measure: *review procedures annually, update if necessary*

Responsible Department: *Inspections and Permits*

3.3.3 Construction Site Inspection Staff Certification

City staff responsible for inspections is certified as a Qualified Credentialed Inspector, or QCI. This designation requires an initial eight-hour training with exam, plus annual recertification. The City provides opportunities for the City inspector to maintain this certification and receive professional development to ensure the state of practice is being promoted and implemented.

Practice Measure: *renew credentials annually*

Responsible Department: *Inspections and Permits*

3.3.4 Construction Site Inspection and Reporting

City Ordinance 616 authorizes construction site inspections by the City inspectors and provides enforcement remedies for noncompliance. The City performs periodic site inspections on construction sites that have been issued land disturbance permits.

If there are deficiencies noted, the City inspector notifies the contractor. The inspector follows up to ensure that the deficiencies are sufficiently addressed. Inspectors have the authority to issue stop work orders for non-compliance. See Appendix D for the City's current construction site inspection form.

Should it be necessary for achieving regulatory compliance, the City will contact the local ADEM field office in Birmingham for construction compliance issues, and ADEM Water Division in Montgomery for issues regarding permits or unpermitted activities. Initial contact and follow will be made by email and phone call.

Practice Measure: *inspect construction activities monthly and after qualifying rain*

Responsible Department: *Inspections and Permits*

3.4 Post-Construction Stormwater Management

The City addresses post-construction stormwater management requirements through City ordinance for new and redevelopment, and through inspection of practices once installed. The primary target audience for this measure includes: *developers; engineers; and City staff.*

3.4.1 Policy/Ordinance for New and Redevelopment – Post Construction

City policy and ordinances related to post-construction must be reviewed periodically to ensure adherence to the permit and to incorporate the state of practice for post-construction stormwater management. Ordinances and policy will be reviewed annually, looking for potential barriers to low impact development and implementation of green infrastructure. Where appropriate, these practices will be promoted as means to mimic predevelopment hydrology, addressing discharge rate, velocity, and volume changes due to new or redevelopment. A review of policies and ordinances for this permit term will take place during the 2017-2018 reporting cycle.

Practice Measure: *review once per permit term, update if necessary*

Responsible Department: *Inspections and Permits*

3.4.2 Policy/Ordinance for Maintenance of Stormwater Controls - Private

The City relies on implemented permanent practices on private property to assist in managing stormwater quality and quantity discharging from those developments into the City's storm sewer system. The City ensures proper design, construction, and long-term maintenance of these controls primarily through City ordinance. A review of policies and ordinances for this permit term will take place during the 2017-2018 reporting cycle.

Practice Measure: *review once per permit term, update if necessary*

Responsible Department: *Inspections and Permits*

3.4.3 Plan Review for New and Redevelopment – Post-Construction

The City's engineer reviews new and redevelopment plans for compliance with NPDES permit responsibilities and City ordinances. Plans are reviewed for assurance that structural and non-structural practices are designed so that predevelopment hydrology is maintained to the maximum extent practicable. Runoff velocity, volume, and rate are reviewed along with provisions for revegetation and other elements that are protective of the City and its waters.

Practice Measure: *review plans as submitted*

Responsible Department: *Inspections and Permits*

3.4.4 Maintenance of Stormwater Controls - Public

The City is responsible for the maintenance of three permanent post-construction stormwater practices. Fultondale has traditionally relied on a commercial service for the responsibility of inspection and maintenance. It is anticipated that these services will continue at least through the end of the current permit term.

Practice Measure: *inspect annually, perform maintenance if necessary*

Responsible Department: *Inspections and Permits*

3.5 Pollution Prevention/Good Housekeeping for Municipal Operations

The City owns and maintains sixteen properties. Only a few of these house traditional municipal shop-like operations. All of the facilities are subject to various standards of practice (SOPs) maintained by the City. Additional SOPs are likely to be created during the permit term addressing equipment washing, street sweeping, road maintenance, chemical storage and disposal, and vehicle/equipment maintenance and repair. The primary target audience for this measure includes: *City staff*.

3.5.1 Inventory of City Support Facilities

The City maintains an inventory of City-owned and maintained facilities. Reference Appendix B for a map and listing of these properties.

Practice Measure: *review annually, update if necessary*

Responsible Department: *Public Works*

3.5.2 Maintenance of Public Trash Receptacles

To minimize the introduction of litter into local waters, the City maintains nearly 150 trash cans in City parks and other public spaces. These cans are emptied daily. Collected trash is hauled to the landfill weekly, at a minimum.

Practice Measure: *empty trash cans daily, haul to landfill weekly*

Responsible Department: *Public Works, Parks and Recreation*

3.5.3 Yard Waste Pick-up Program

The City operates a bi-weekly yard debris and non-hazardous waste pick-up program for its citizens. This reduces the potential for illegal dumps and illicit disposal of these non-hazardous wastes.

Practice Measure: *pick-up, haul to landfill 2 times per week*

Responsible Department: *Public Works, Parks and Recreation*

3.5.4 Paper Recycling Program

The City operates a paper recycling program for City operations and for public participation. Two commercial pick-up service providers are used.

Practice Measure: *receptacles emptied and recycled monthly*

Responsible Department: *Public Works*

3.5.6 Oil Recycling Program

There is currently no formal recycling program in place for the disposal of waste oil and vehicle fluids at the City's shop facilities. The City intends to investigate and begin participation in a recycling program during the 2017-2018 reporting term.

Practice Measure: *Investigate, begin participation*

Responsible Department: *Public Works*

3.5.7 Staff Pollution Prevention Training

City staff are being trained to better manage potential pollutants from municipal operations. This training is a part of a series of training topics that have been included with regular safety training meetings for public works and parks department staff.

Practice Measure: *provide PP/GH training to appropriate staff once per year*

Responsible Department: *Public Works*

3.5.8 Good Housekeeping SOPs for Support Facilities

The City currently maintains Standard Operating Procedures (SOPs) for several municipal operations. Existing SOPs include lawn maintenance and irrigation, weed and pest control, general housekeeping, spill prevention and cleanup, vehicle fueling and washing, storm sewer system maintenance, street sweeping, roadway and bridge maintenance, and sand storage. Existing SOPs will be reviewed annually and modified and/or supplemented if necessary. Fultondale's operational SOPs are included in Appendix D.

Practice Measure: *review annually, update if necessary*

Responsible Department: *Public Works*

3.6 Monitoring

In the past, there has been a misunderstanding in regard to which of the two Black Creeks in Fultondale is impaired. This misunderstanding has caused monitoring of pH to be performed at the incorrect stream since 2014. Monitoring of this stream has confirmed that the stream flowing through the City parks is not impaired for pH. Future monitoring will be conducted on the impaired Black Creek in the northeast area of the City limits. The primary target audiences for this measure include: *ADEM; and others interested in Alabama water resources.*

3.6.1 Revise the Black Creek Monitoring Plan

A revised plan for monitoring Black Creek is being created. Sampling locations and procedures will be determined and documented prior to June 30, 2017.

Practice Measure: *revise sampling plan*

Responsible Department: *Inspections and Permits*



3.6.2 Monitor Black Creek

Quarterly monitoring of the impaired Black Creek will begin on June 30 of 2017. Locations for sampling will be selected to represent the City’s potential impacts to the stream and potential contribution to the pH impairment. The cited source of the impairment is abandoned surface mine property. The City is not aware of this land use within the City limits.

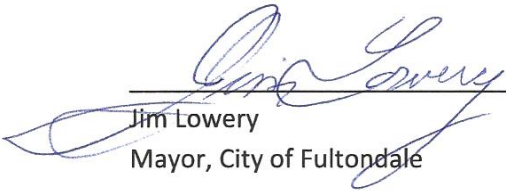
Practice Measure: *sample and test quarterly, upstream and downstream*

Responsible Department: *Inspections and Permits*



4.0 Certification

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



Jim Lowery
Mayor, City of Fultondale



Date

PO Box 699
Fultondale, AL 35068

(205) 841-4481