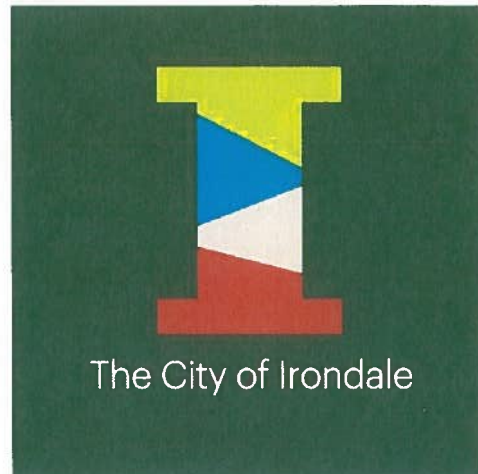




STORM WATER MANAGEMENT PROGRAM PLAN
August 2024

Prepared For
City of Irondale
101 20th Street South
Irondale, Alabama 35210

Prepared by
Jefferson County Department of Health
1400 Sixth Avenue South
Birmingham, Alabama 35233
(205) 930-1230

Signatory and Certification Requirements:

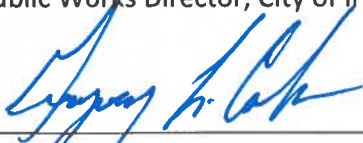
I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system,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



Frank Pennington
Public Works Director, City of Irondale



Date



Greg Cochran
Building Inspections Official, City of Irondale



Date

Address: 101 20th Street South
Irondale, Alabama 35210

Phone: (205) 956-9200

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INTRODUCTION

REGULATORY OVERVIEW

The City of Irondale ("City") was issued by the Alabama Department of Environmental Management ("ADEM") a Municipal Separate Storm Sewer System ("MS4") Individual Phase I Permit (ALS000019) on June 7, 2017. Previously, the City was included as a Co-Permittee under permit number ALS000001. The current permit was issued and became effective on July 11, 2022 (**Appendix A**).

As a condition of this permit, "The permittee is required to develop, revise, implement, maintain and enforce a storm water 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 122.26. These requirements shall be met by the development and implementation of a storm water 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")."

Per the requirements of NPDES Permit Number ALS000019, BMPs, measurable goals, and responsibility designations are provided for each of the following program elements:

- Storm Water Collection System Operations;
- Public Education and Public Involvement on Storm Water Impacts;
- Illicit Discharge Detection and Elimination;
- Construction Site Storm Water Runoff Control;
- Post-Construction Storm Water Management in New Development and Re-Development;
- Spill Prevention and Response;
- Pollution Prevention/Good Housekeeping for Municipal Operations;
- Application of Pesticides, Herbicides, and Fertilizers;
- Oils, Toxics, and Household Hazardous Waste Control; and
- Industrial Storm Water Runoff.

ADEM defines the fiscal year as October 1st to September 30th. Annual reports are required to be submitted to ADEM no later than January 31st following the previous fiscal year.

MS4 JURISDICTIONAL BOUNDARY

Irondale's MS4 boundary is bound to the north by the cities of Birmingham and Trussville, to the south by the cities of Mountain Brook and Vestavia Hills, and to the east and west by the cities of Birmingham and Leeds respectively. Approximately 16 square miles of residential, commercial, industrial, undeveloped lands, and streams make up the MS4 boundary. See **Figure 1: MS4 Boundary**.

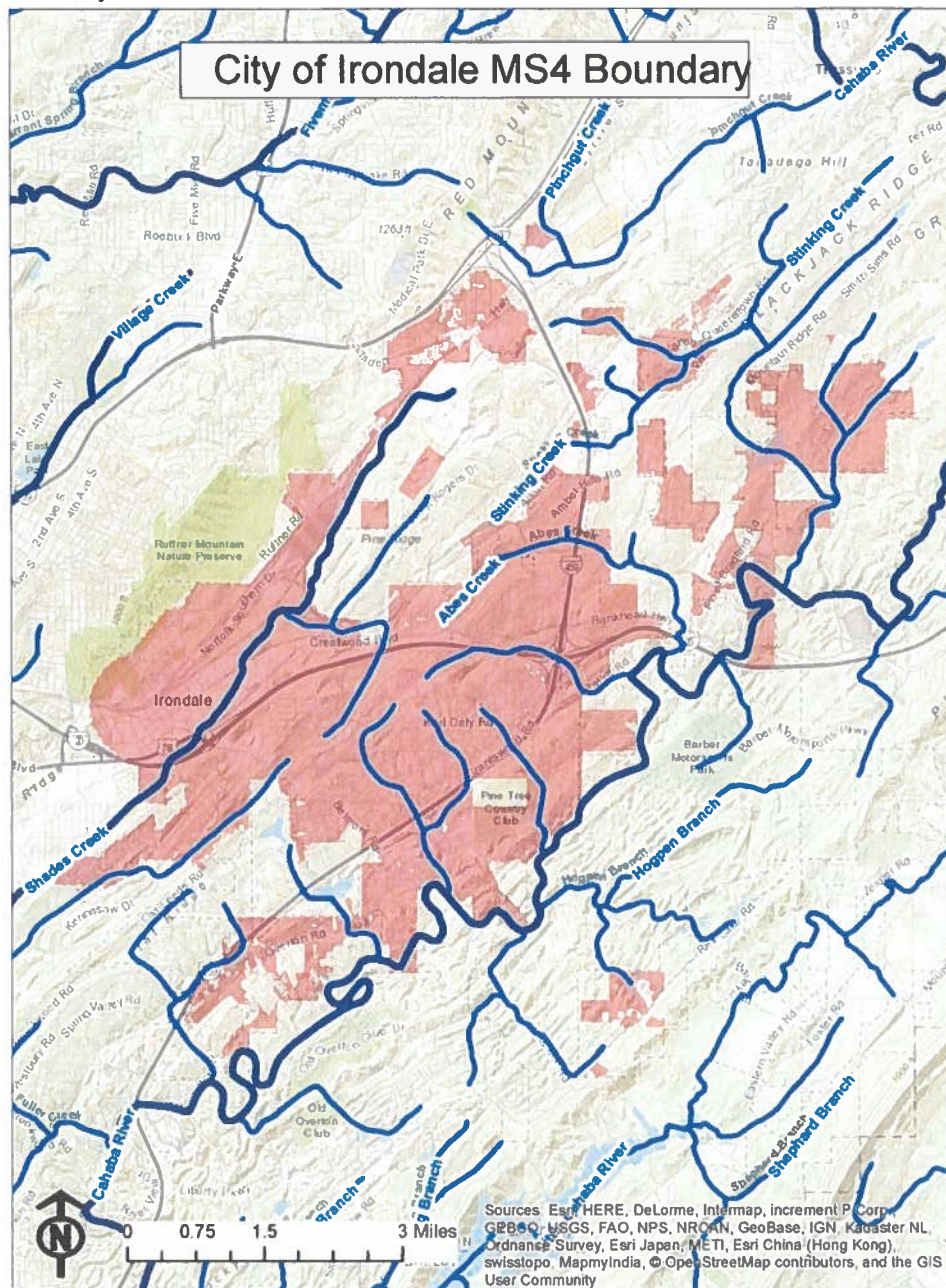


Figure 1: MS4 Boundary

There are two waterbodies, Cahaba River and Shades Creek, which are considered impaired by the U.S. Environmental Protection Agency and ADEM and flow through sections of Irondale. Cahaba River's designated use above Grant's Mill Bridge is Fish and Wildlife and below the bridge is Outstanding Alabama Waters ("OAW") and Public Water Supply ("PWS"). Cahaba River has an approved Total Maximum Daily Loads ("TMDLs") for Siltation (Habitat Alteration) and Nutrients. Shades Creek's designated use is Fish and Wildlife ("F&W"). Shades Creek has an approved Total Maximum Daily Loads ("TMDLs") for Siltation (Habitat Alteration), Turbidity, and Pathogens (Fecal Coliform).

LEGAL AUTHORITY AND ENFORCEMENT

Part II C of the permit requires the City to review and revise its ordinances and regulatory mechanisms as necessary to comply with the permit. Below is a summary of the current ordinances, municipal codes, and regulations related to the management of Irondale's MS4. These ordinances are found in **Appendix A**.

- **Erosion and Sedimentation Control Ordinance (codified in Chapter 15, Article II, Secs. 15-81 through 15-170 in *The Irondale City Code*):** Controls sedimentation leaving construction sites. The ordinance describes the fees, regulations, and the requirements surrounding a land disturbing permit issuance.
- **Ordinance 464-83, Subdivision Regulations:** Approved by the Planning and Zoning Commission and carries the force of a City Ordinance. The regulations address design requirements for residential and commercial storm water infrastructure.
- **Tree and Landscape Ordinance (codified in Appendix A, Article V, Sec. 5:24 in *The Irondale City Code*):** Encourages the planting of trees and shrubs to aid in the prevention of erosion and sedimentation, reduce storm water runoff, help control drainage, and restore denuded soil subsequent to construction and grading.
- **Ordinance 2021-16, Flood Ordinance:** Promotes public health, safety and general welfare by controlling construction and construction practices in and around the floodplain as well as controlling the alteration of natural floodplains, stream channels, and natural protective barriers that are involved in the accommodation of floodwaters.
- **Garbage, Refuse, and Trash Ordinance (codified in Chapter 7.5, Secs. 7.5-1 through 7.5-19 in *The Irondale City Code*):** Makes it unlawful to litter upon any curb, gutter, sidewalk, avenue, highway, tunnel, park, parkway, or lot within the city limits. This ordinance also

institutes a law against any person sweeping or depositing grass clippings, limbs, leaves, bushes, solid waste or any other materials on public streets, curb lines, sidewalks and gutters.

- **Junked and Abandoned Motor Vehicles Ordinance (codified in Chapter 9, Article II, Secs. 9-26 through 9-70 in *The Irondale City Code*):** Establishes a law against leaving abandoned and non-usable motor vehicles in the street or within public view.
- **Post-Construction Ordinance (codified in Chapter 15, Article III in *The Irondale City Code*):** Establishes procedures to address the discharge of pollutants in post-construction storm water runoff to the MS4 from new development and re-development.
- **Ordinance 2018-13, Illicit Discharge Ordinance (codified in Chapter 15, Article IV in *The Irondale City Code*):** Prohibits non-storm water discharges to the MS4.

In 2011, the City of Irondale also adopted a Standard Operating Procedure ("SOP") Manual detailing guidelines for addressing many activities associated with the program elements. The SOP Manual is found in **Appendix A**.

Table 1: SWMPP Responsibilities Summary reflects which department is responsible for implementing or coordinating BMPs for each separate program element.

Table 1: SWMPP Responsibilities Summary

DEPARTMENT	RESPONSIBILITIES
Storm Water Collection Systems Operations	
Inspections/JCDH	Maintain map of city-owned/maintained structural controls
Inspections	Semi-annual inspection of new and existing structural controls
Inspections	Develop SOP, inspection checklist, and maintenance procedures
Public Works	Stabilize and re-vegetate eroded areas as needed
Public Works	Remove floatable, litter, sediment, and debris from structural controls
Public Education and Public Involvement on Storm Water Impacts	
Administration	Seek and consider public input in the development and implementation of the SWMPP
Administration	Identify targeted pollutant sources
Administration/Public Works	Post litter signage
Administration	Educate individuals and households on reducing storm water pollution
Administration	Encourage community involvement in the storm water program
Administration	Evaluate the effectiveness of the public education program
Administration	Organize annual cleanup
Illicit Discharge Detection and Elimination (IDDE)	
JCDH	Develop MS4 map of outfalls
Administration	Develop applicable ordinances and other regulatory mechanisms
JCDH	Screen at least 15% of the outfalls during dry weather conditions
City Personnel/JCDH	Identify illicit discharge source
Code Enforcement Officer or JCDH	Eliminate illicit discharges
Engineering	Notify ADEM of a suspected illicit discharge entering the MS4 from an adjacent MS4
Administration	Receive complaints and investigate illicit discharges reported by the public
Administration	Educate employees on detecting an IDDE, tracing the source of and eliminating illicit discharge
Administration	Make publicly available ordinances and regulatory mechanisms
Construction Site Storm Water Runoff Control	
Administration	Develop applicable ordinances and other regulatory mechanisms
Engineering	Perform site plan reviews
Inspections/Engineering	Complete monthly qualifying site inspections
Inspections	Train inspection staff
Inspections	Provide construction site inspection checklist
Administration	Document Enforcement Response Plan actions
Administration/Inspections	Provide construction site operator education

DEPARTMENT	RESPONSIBILITIES
Post-Construction Storm Water Management in New Development and Re-Development	
Administration	Develop applicable ordinances and other regulatory mechanisms
Administration/Inspections	Encourage the application of LID/GI practices
Inspections	Inventory post-construction structural controls
Spill Prevention and Response	
Fire	Follow City response protocol
Fire	Follow spill prevention/spill response plan
Fire/Administration	Educate employees on spill prevention/spill response
Pollution Prevention/Good Housekeeping for Municipal Operations	
All Departments	Inventory municipal facilities
All Departments	Evaluate strategy for trash removal
All Departments	Follow good housekeeping practices SOP
All Departments	Complete municipal inspections
Administration	Educate employees on good housekeeping
Application of Pesticides, Herbicides, and Fertilizers (PHFs)	
Parks and Recreation	Document application and storage of PHFs
Administration	Educate employees on PHFs usage and storage
Oils, Toxics, and Household Hazardous Waste Control	
Administration	Educate public on proper disposal
Administration	Educate employees on oils, toxics, and household hazardous waste
Industrial Storm Water Runoff	
Administration/JCDH	Inventory high-risk facilities
JCDH	Inspect high-risk facilities
Monitoring and Reporting	
JCDH	Monitor locations
JCDH	Review identified impaired waterways
JCDH	Monitor parameters and frequency
JCDH	Perform sampling and analysis
Other Requirements	
All Departments	Perform SWMPP plan review and modification
JCDH	Prepare annual report for submittal

STORM WATER COLLECTION SYSTEMS OPERATIONS

STRUCTURAL CONTROLS MAP

Currently there are no city-owned structural controls within the MS4 boundary limits. The City will monitor the addition of any city-owned/maintained structural controls and, if any are added, the City will include them in future annual reports.

Responsible Departments: Inspections/JCDH

STRUCTURAL CONTROLS INSPECTION

As stated in the permit, all existing and new structural controls owned/maintained by the Permittee shall be inspected using a standard inspection form found in **Appendix B** on a semi-annual basis, at a minimum. Maintenance activities will also be documented using the provided maintenance form found in **Appendix B**. The completed forms should be uploaded to the Storm Water Online Activity Record ("SOAR") program. The City currently owns no structural controls. A city inspector and/or a contractor will perform inspections. Any deficiencies or maintenance recommendations listed on the inspection form in regard to the structural control will be addressed and documented by Public Works.

Responsible Department: Inspections

STANDARD OPERATING PROCEDURE (SOP) FOR STRUCTURAL CONTROL INSPECTION AND MAINTENANCE PROCEDURES

The standard operating procedure for structural control inspection and maintenance is found in **Appendix B**.

Responsible Department: Inspections

STABILIZATION AND RE-VEGETATION OF ERODED AREAS

During the inspection of the structural controls, areas of erosion will be documented. The Public Works Department will receive a copy of the inspection documentation noting the eroded areas and will stabilize and re-vegetate those areas. Activities are to be documented and submitted as described.

Responsible Department: Public Works

FLOATABLES, LITTER, SEDIMENT, AND DEBRIS REMOVAL

All floatables, litter, sediment, and/or debris found during the structural inspection will be documented. The Public Works Department will receive a copy of the inspection documentation and will address the noted items. Public Works will also complete documentation of the estimated amounts of floatables, litter, sediment and debris removed during maintenance activities and upload to SOAR.

Responsible Department: Public Works

PUBLIC EDUCATION AND PUBLIC INVOLVEMENT ON STORM WATER IMPACTS

PUBLIC EDUCATION AND PUBLIC INVOLVEMENT BMPS

PUBLIC EDUCATION

The City will provide public education information via its stormwater webpage and distribution of stormwater brochures.

PUBLIC INVOLVEMENT

The City activities for public involvement include a litter clean-up and a household hazardous waste collection event.

DEVELOPMENT AND IMPLEMENTATION OF THE SWMPP

The City seeks public input on the SWMPP annually. Notification of the public comment period will be made at council meetings. The SWMPP is available for review on the City's website. If revisions are approved, the updated SWMPP will be submitted to ADEM and posted on the website.

Responsible Department: Administration

TARGETED POLLUTANT SOURCES FOR PUBLIC EDUCATION

The City discusses targeted pollutant sources in the section of the SWMPP titled "Community Involvement with the Storm Water Program".

REDUCTION OF LITTER, FLOATABLES, AND DEBRIS

Litter signage is maintained throughout the City. Signage will be updated as necessary to properly address these issues. Administration approves of the messages and Public Works installs the signs and/or labels.

Responsible Departments: Administration/Public Works

EDUCATING INDIVIDUALS AND HOUSEHOLDS ON REDUCING STORM WATER POLLUTION

Information describing Irondale's Storm Water Program is posted on the City's website. The information includes general information about the storm water permit with links and brochures about different ways to reduce storm water pollution in relation to the different community segments. These same brochures on storm water issues are placed at City Hall for public pickup. These materials will be updated as needed.

Responsible Department: Administration

COMMUNITY INVOLVEMENT WITH THE STORM WATER PROGRAM

GENERAL PUBLIC

The City has a storm water page on its website and placed brochures in City facilities containing information that inform the general public of:

- General impacts litter has on waterbodies and ways to reduce the litter;
- General impacts of storm water on surface water from impervious surfaces;
- Source control BMPs in areas of pet waste, home vehicle maintenance, landscaping, and rainwater reuse; and
- Impacts of illicit discharges and how to report them.

These materials will be updated as needed.

Responsible Department: Administration

GENERAL PUBLIC AND BUSINESSES, INCLUDING HOME-BASED AND MOBILE

The City has a storm water page on its website and placed brochures in City facilities containing information on the following business-related topics:

- Information on BMPs for use and storage of automotive chemicals, hazardous cleaning supplies, carwash soaps, and other hazardous materials; and
- Impacts of illicit discharges and how to report them.

These materials will be updated as needed.

Responsible Department: Administration

HOMEOWNERS, LANDSCAPERS, PROPERTY MANAGERS, AND CITY PERSONNEL

The City has a storm water page on its website and placed brochures in City facilities containing educational information that inform homeowners, landscapers, and property managers on the following topics:

- Landscape or yard care techniques that protect water quality;
- BMPs and storage of pesticides, herbicides, and fertilizers;
- BMPs for carpet cleaning and auto repair and maintenance;
- Detention/retention pond maintenance; and
- General impacts of storm water from impervious surfaces into surface water.

These materials will be updated as needed.

Responsible Department: Administration

ENGINEERS, CITY PERSONNEL, REVIEW STAFF, LAND USE PLANNERS, CONTRACTORS, AND DEVELOPERS

The City has a storm water page on its website and also placed brochures in City facilities to inform engineers, contractors and developers on the following topics:

- Impacts of increased storm water flows into receiving waterbodies;
- Technical standards for construction site sediment and erosion control;
- Stormwater treatment and flow control BMPs; and
- Run-off reduction techniques and low impact development (LID)/green infrastructure practices and maintenance. Specifically addressing site design, pervious pavement, alternative parking lot design, retention of forests and mature trees.

These materials will be updated as needed.

Responsible Department: Administration

EVALUATING THE EFFECTIVENESS OF THE PUBLIC EDUCATION PROGRAM

The City will, on a continuing basis, evaluate the effectiveness of the public education program by monitoring and reporting the number of visitors to the storm water page and the number of brochures that are picked up from City facilities on an annual basis.

Responsible Department: Administration

PUBLIC ACTIVITIES TARGETING LITTER, FLOATABLES, AND DEBRIS REMOVAL FROM AREA WATERWAYS

Currently, the City is planning to host or participate in a cleanup annually. The tonnage collected by the City will be included in the annual report.

Responsible Department: Administration

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

MS4 MAP

Maps of the major outfalls and waters of the State within the MS4 boundary that receive discharge from the major outfalls can be found in **Appendix C**. Also, a list of the major outfalls' latitude and longitude coordinates can be found in **Appendix C**.

JCDH will update the MS4 map and provide a list of location coordinates annually on behalf of the City in the annual report.

Responsible Department: JCDH

ORDINANCE/REGULATORY MECHANISM

The City's Illicit Discharge ordinance addresses illicit discharges as required by the City's Permit.

Responsible Department: Administration

DRY WEATHER SCREENING PROGRAM

Dry weather screening of at least fifteen percent (15%) of the major outfalls will be performed annually with one hundred percent (100%) of the major outfalls screened at least once per the five-year permit period. This work will be completed by JCDH. Currently, there are no priority outfalls identified within the MS4 boundary, but if illicit discharges are identified during the dry weather inspections, those outfalls will be screened on an annual basis. JCDH shall use the EPA's guidance manual, *Illicit Discharge Detection and Elimination, A Guidance Manual for Program Development and Technical Assessments*, Center for Watershed Protection, October 2004, for the main source of investigative techniques and guidance for the dry weather screening process. Outfalls will be field inspected after a minimum of seventy-two (72) hours of dry weather. Data sheets found in **Appendix C** will be filled out for each outfall inspected. The protocols for dry weather screening are in the Standard Operating Procedure Manual found in **Appendix A**.

Responsible Department: JCDH

SOURCE IDENTIFICATION

If during the dry weather screenings, Public Works' identification, or citizen complaint, an outfall is found to be discharging a liquid, the city inspector or JCDH personnel will traverse upstream of the discharge in an attempt to identify the source of the discharge. If the discharge source is unidentifiable, then a sample of the discharge shall be collected by JCDH and analyzed by a qualified lab. Based on the lab results, the outfall will be prioritized and scheduled for further investigation if needed.

Responsible Departments: City Personnel/JCDH

ILLICIT DISCHARGE ELIMINATION

Once the source and responsible party of an illicit discharge has been identified, either the City will take action through the City's Illicit Discharge Ordinance or JCDH will through its regulations.

Responsible Departments: Code Enforcement Officer/JCDH

ADEM NOTIFICATION BY THE CITY

If a suspected illicit discharge enters the City's MS4 boundary from an adjacent MS4, the City will notify the adjacent MS4 and the ADEM Water Division within forty-eight (48) hours of observing the suspected illicit discharge. The Standard Operating Procedure for this action is found in **Appendix C**.

Responsible Department: Engineering

ILLICIT DISCHARGE REPORTING BY THE PUBLIC

The City receives calls for illicit discharges at the city hall phone number (205-956-9200) frequently. There is also a phone number, 205-930-1999, listed on the City's website to report illicit discharges.

Responsible Department: Administration

PERSONNEL TRAINING

City administrators, engineers, inspectors and laborers will be trained on IDDE identification and response annually.

Responsible Department: Administration

ORDINANCE/REGULATORY MECHANISM AVAILABILITY

The City of Irondale adopted an Illicit Discharge and Elimination (IDDE) Ordinance (Ordinance No. 2018-13) and incorporated the ordinance into the *Municipal Code of the City of Irondale, Alabama* in Chapter 15, Article IV. This ordinance can be found at https://library.municode.com/al/irondale/codes/code_of_ordinances.

Responsible Department: Administration

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

ORDINANCE/REGULATORY MECHANISM

The City of Irondale adopted an Erosion and Sedimentation Control Ordinance (codified in Chapter 15, Article II in The Irondale City Code addressing Construction Site Regulations as required by the City's Permit can be found here:

https://library.municode.com/al/Irondale/codes/code_of_ordinances.

Responsible Department: Administration

SITE PLAN REVIEWS

According to Erosion and Sedimentation Control Ordinance, a BMP plan must be submitted to the City along with the permit application before any land disturbance. The City must either approve or disapprove the BMP plan within fourteen (14) days. Reasons for disapproval must be submitted to the applicant in writing. All revisions have an additional fourteen (14) day response time. Land disturbing activity may commence prior to the issuance of the permit by the City.

Responsible Department: Engineering

CONSTRUCTION SITE INSPECTION SCHEDULE

The City will perform a monthly inspection, at a minimum, on qualifying sites that have been issued land disturbance permits. Irondale's sites are categorized as "Priority Construction Sites" due to the impaired status of Shades Creek and the Cahaba River. Erosion controls and best management practices will be inspected during these inspections. Deficiencies identified during an inspection will be subjected to enforcement procedures outlined in the Erosion and Sedimentation Control Ordinance.

Responsible Departments: Inspections/Engineering

TRAINING OF MS4 SITE INSPECTION STAFF

Personnel responsible for construction site inspections receive BMP training annually.

Responsible Department: Inspections

CONSTRUCTION SITE INSPECTION CHECKLIST

See **Appendix D** for the City's construction site inspection checklist.

Responsible Department: Inspections

ENFORCEMENT RESPONSE PLAN (ERP)

An Enforcement Response Plan is included in **Ordinance 2018-11**. Documentation of formal enforcement actions and ADEM referrals is available via the SOAR program.

Responsible Department: Administration

CONSTRUCTION SITE OPERATOR TRAINING

The City provides construction site operators informational materials regarding appropriate application and maintenance of erosion and sediment controls when they receive their permits from the Inspections Department. The City has a storm water page on its website and brochures at City facilities that inform the engineers, contractors and developers on:

- Impacts of increased storm water flows into receiving waterbodies; and
- Run-off reduction techniques and low impact development ("LID")/green infrastructure ("GI") practices. Specifically addressing site design, pervious pavement, alternative parking lot design, retention of forests and mature trees.

These materials will be updated as needed.

Responsible Departments: Administration/Inspections

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND RE-DEVELOPMENT

ORDINANCE/REGULATORY MECHANISM

The City of Irondale adopted a Post-Construction Ordinance (Ordinance 2018-12) and incorporated the ordinance into *The Irondale City Code* as Chapter 15, Article III.

The Ordinance addresses the following:

- Procedures to develop, implement and enforce systems of appropriate structural and/or non-structural BMPs;
- Procedures to develop, implement and enforce performance standards;
- Procedures for encouragement of the utilization of LID/GI practices;
- Procedures to ensure compliance including sanctions and enforcement mechanisms;
- Procedures for post-construction inspections to include tracking and enforcement; and
- Procedures to ensure adequate long-term operation and maintenance of BMPs.

This ordinance can be found here:

https://library.municode.com/al/Irondale/codes/code_of_ordinances.

Responsible Department: Administration

LID/GI ENCOURAGEMENT PROCEDURES

Information detailing the importance of LID/GI is provided along with the City's land disturbance permit application. This also includes a statement acknowledging receipt of the information by the applicant.

Responsible Department: Administration/Inspections

INVENTORY OF POST-CONSTRUCTION STRUCTURAL CONTROLS

Currently there are seven privately-owned structural controls within the City (**Table 2 Post-Construction Structural Controls**). The City will monitor the addition of any privately-owned structural controls and include them in the annual report.

Table 2: Post-Construction Structural Controls

Site Name	Location	Description	Latitude	Longitude
Kendall Electric	1189 Grants Mill Road, Irondale, AL 35210	Detention Pond	33.532785	-86.683704
Echo Park	2001 Tom Williams Way, Irondale, AL 35210	Detention Pond	33.519302	-86.664227
Chevron	4623 Grantswood Ct. Irondale, AL 35210	Detention Pond	33.526335	-86.664434
Grants Mill Crossings HOA	1155 Grants Way, Irondale, AL 35210	Detention Pond	33.541854	-86.68132
Kirkwood Cottages	1234 Cedar Ridge Rd. Irondale, AL 35210	Detention Pond	33.53840	-86.63525
The Heights	1291 Heights Ave. Irondale, AL 35210	Detention Pond	33.53883	-86.66976
Kirkwood Commercial	3605 Ratliff Rd. Irondale, AL 35210	Detention Pond	33.53840	-86.63106

Responsible Department: Inspections

SPILL PREVENTION AND RESPONSE

CITY RESPONSE PROTOCOL

Irondale Fire Department is responsible for investigating, responding, and conducting response actions for any spill within the City's boundaries. Jefferson County's Emergency Management Agency ("EMA") will additionally respond at the request of the City. Irondale's Fire Department and EMA track the spills, the response, and the cleanup activities for all spills.

Responsible Department: Fire

SPILL PREVENTION/SPILL RESPONSE PLAN

The City's SOP for spill response is found in **Appendix E**.

Responsible Department: Fire

PERSONNEL SPILL PREVENTION/RESPONSE TRAINING

Irondale Fire Department is responsible for the training and certification of their personnel. An annual training will be provided to municipal personnel on spill prevention/response.

Responsible Departments: Fire/Administration

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

MUNICIPAL FACILITIES INVENTORY

See **Table 3: Municipal Facilities** for a list of facilities. The list will be updated as needed in the annual report.

Table 3: Municipal Facilities

Name	Address	Inspection
Irondale Public Works (Maintenance Shop and Equipment Storage)	101 20th Street South	Yes. Vehicle and Equipment Maintenance. PHF Storage.
City Hall	101 20th Street South	No. No potential to discharge pollutants.
Equipment Storage-Water Department	2024 2nd Avenue South	No. No potential to discharge pollutants.
Fire Station #1	5308 Beacon Drive	No. No potential to discharge pollutants.
Fire Station #2	6101 Old Leeds Road	No. No potential to discharge pollutants.
Fire Station #3	2603 Alton Road	No. No potential to discharge pollutants.
Police Department	100 20th Street South	No. No potential to discharge pollutants.
Public Library	105 20th Street South	No. No potential to discharge pollutants.
Ruffner Park	301 Ruffner Road	No. No potential to discharge pollutants.
Senior Citizens Center	5313 Beacon Drive	No. No potential to discharge pollutants.
Water Department	108 22nd Street North	No. No potential to discharge pollutants.
Water Equipment Storage	108 22nd Street North	No. No potential to discharge pollutants.
Building Department/ Water Department	1801 Crestwood Boulevard	No. No potential to discharge pollutants.

Responsible Departments: All Departments

STRATEGY EVALUATION

City personnel pick up trash prior to it entering the MS4 and remove trash from the MS4. Volunteer organizations assist with removal of trash from waterbodies and the MS4. Trash collected is assessed and documented. The City also participates in a household hazardous waste collection event. An SOP for special events is located in **Appendix F**. These activities have been successful in removing and preventing trash from entering the MS4.

Responsible Departments: All Departments

GOOD HOUSEKEEPING PRACTICES SOP

The SOP detailing good housekeeping practices is found in the 2011 SWMA SOP Manual (**Appendix A**).

Responsible Departments: All Departments

INSPECTION PLAN

Annual inspections will be conducted for municipal facilities that have the potential to discharge pollutants via stormwater runoff. See **Appendix F** for the inspection checklist.

Responsible Departments: All Departments

GOOD HOUSEKEEPING TRAINING PROGRAM

City staff will be educated annually on good housekeeping practices. The SOP manual (**Appendix A**) contains procedures related to Good Housekeeping.

Responsible Department: Administration

APPLICATION OF PESTICIDES, HERBICIDES, AND FERTILIZERS (PHFS)

APPLICATION AND STORAGE

The Public Works Department keeps annual records of applied pesticides, herbicides, and fertilizers ("PHFs"). Each chemical used is applied per the labeling instructions. Safety Data Sheets ("SDS") on each product are found in the chemical storage areas. City staff responsible for application of PHFs receive annual training in safe use, storage, and disposal of PHFs. All contractors contracted to apply pesticides or herbicides to City property shall provide proper certification and licensing before performing work. Also, contractors contracted to apply fertilizer must provide qualification in utilizing proper nutrient management practices.

City facilities that store PHFs will be inspected annually to determine proper storage, product labeling, and SDS accessibility (**Table 3: Municipal Facilities**). The SOP manual (**Appendix A**) contains procedures related to usage and storage of PHFs.

Responsible Department: Public Works

PHF TRAINING PROGRAM

Necessary staff will be educated annually on proper PHF practices.

Responsible Department: Administration

OILS, TOXICS, AND HOUSEHOLD HAZARDOUS WASTE

PUBLIC EDUCATION ON PROPER DISPOSAL

The City has contact information on its webpage regarding where to report spills, illicit discharges and improper disposals. The webpage also includes a link to the website Earth911 <http://earth911.com/> which provides local sites for recycling of oils, toxics and household hazardous waste. Brochures on oils, toxics, and household hazardous waste are on the City storm water webpage as well as placed in City facilities for public pick-up.

Responsible Department: Administration

ANNUAL EMPLOYEE TRAINING

Annual training on spill prevention is provided to City personnel.

Responsible Department: Administration

INDUSTRIAL STORM WATER RUNOFF

INVENTORY OF HIGH-RISK FACILITIES

The City maintains a list of industrial and high-risk facilities within the city limits (**Appendix G**). The list of facilities will be reviewed annually for accuracy and included in the annual report.

Responsible Departments: Administration/JCDH

INSPECTION OF HIGH-RISK FACILITIES

JCDH will inspect these sites annually on behalf of the City. See **Appendix G** for the Industrial Inspection form.

Responsible Department: JCDH

MONITORING AND REPORTING

MONITORING LOCATIONS

JCDH will take grab samples annually on behalf of the City. See **Table 4: Sampling Sites** for a list of sampling sites.

Table 4: Sampling Sites

Water Body	Latitude, Longitude	Description
Cahaba River	33.511484, -86.652636	Grab Sample
Shades Creek	33.520615, -86.716795	Grab Sample and Water Quality Sonde Site

An hourly water quality sonde is installed on Shades Creek and managed by the United States Geological Survey (USGS). The site's title is USGS 02423571 Shades Creek at Elder Street near Springdale, Alabama.

Responsible Department: JCDH

IMPAIRED WATERWAYS

JCDH, on behalf of the City, will review the waterbodies listed in the latest final §303(d) list, annually. If a waterbody becomes listed that falls within the MS4 boundary, the SWMPP will be updated as needed.

Responsible Department: JCDH

MONITORING PARAMETERS AND FREQUENCY

Grab samples will be analyzed for the following parameters:

- a. E. coli
- b. Total Nitrogen (TN) (mg/l)
- c. Total Phosphorus (mg/l)
- d. Total Suspended Solids (TSS) (mg/l)
- e. Temperature
- f. pH/ORP
- g. Turbidity (NTU)
- h. Conductivity
- i. Dissolved Oxygen (mg/l)
- j. Ammonia Nitrogen (NH₃-N) (mg/l)
- k. Biochemical Oxygen Demand (BOD) (mg/l)
- l. Chemical Oxygen Demand (COD) (mg/l)
- m. Hardness as CaCO₃ (mg/l)
- n. Nitrate plus Nitrite Nitrogen (NO₃+NO₂-N) (mg/l)
- o. Oil and Grease (mg/l)
- p. Total Dissolved Solids (TDS) (mg/l)
- q. Total Kjeldahl Nitrogen (TKN) (mg/l)

The water quality sonde monitors the following parameters at least hourly:

- a. Temperature
- b. Turbidity (NTU)
- c. Conductivity
- d. Dissolved Oxygen
- e. Water level

Responsible Department: JCDH

SAMPLE TYPE, COLLECTION, AND ANALYSIS

JCDH will collect grab samples and submit them to a certified laboratory for analysis.

Responsible Department: JCDH

OTHER REQUIREMENTS

SWMPP PLAN REVIEW AND MODIFICATION

This plan will be reviewed annually and updated as necessary.

Responsible Departments: All Departments

ANNUAL REPORT

The annual report will be compiled by JCDH for the City of Irondale.

Responsible Department: JCDH