



PHENIX CITY
Alabama

DEPARTMENT OF
ENGINEERING / PUBLIC WORKS

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Councilmember District 2

ARTHUR L. DAY, JR.
Councilmember District 3

WALLACE B. HUNTER, City Manager
MELONY LEE, City Clerk
ANGEL MOORE, P.E., City Engineer
Director of Engineering / Director of Public Works

VIA CERTIFIED MAIL

May 25, 2018

Alabama Department of Environmental Management
Stormwater Management Branch
Attn: Marla Smith
P. O. Box 301463
Montgomery, AL 36130-1463

Re: 2017-2018 Annual Stormwater Report

Mrs. Smith:

Please find attached the Stormwater Management Program Annual Report for the City of Phenix City, Alabama.

If you have any questions, please do not hesitate to contact my office.

Sincerely,

Angel Moore, P.E.
City Engineer

Cc: File

Storm Water Management Program Annual Report

City of Phenix City, Alabama

Individual Phase II MS4

NPDES Permit No. ALR040019



April 1, 2017 – March 31, 2018



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1.0 Introduction

The Annual Report is required by Part VI of the Alabama Department of Environmental Management (ADEM) National Pollutant Discharge Elimination System (NPDES) Individual Permit ALR040019 for discharges from the City of Phenix City Municipal Separate Storm Sewer System (MS4).

1.1 Phenix City MS4 Area

The City of Phenix City is located in southeast Alabama within the *Columbus, Georgia – Alabama Urbanized Area*. The Phenix City MS4 comprises approximately 18.63 square miles (11,923 acres). The City limits encompass an area of approximately 27.75 square miles (17,760 acres).

According to the 2016 census, the current population of Phenix City is approximately 37,132 with a population density of 1,338.09 people per square mile.

1.2 Hydrologic Units in the Urbanized Area

The Chattahoochee River is the primary receiving water for the Phenix City MS4. Hydrologic hierarchy, watersheds, and subwatersheds are provided in the tables below.

Table 1-1: Hydrologic Hierarchy

REGION	03	South Atlantic-Gulf
SUBREGION	03	South Atlantic-Gulf
BASIN	031300	Apalachicola: The coastal drainage and associated waters from the Ochlockonee River Basin boundary to and including the Apalachicola River Basin and the drainage into Apalachicola Bay
SUBBASIN	03130003	Middle Chattahoochee-Walter F. George

Table 1-2: Watersheds in the Phenix City MS4

Watershed	HUC	TOTAL AREA (Acres)
Mill - Holland Creek	03130003-0101	15,872



1.3 Water Quality Concerns

Section 303(d) of the Clean Water Act (CWA), as amended by the Water Quality Act of 1987, and EPA’s 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. The identified waters are prioritized based on severity of the pollution. 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. The TMDL process establishes the allowable loading of pollutants, or other quantifiable parameters for a waterbody, based on the relationship between pollution sources and in-stream water quality conditions.

As mentioned in Section 1.2, the Chattahoochee River is the primary receiving water for the Phenix City MS4. ADEM has identified an impaired stream within the City. The following table summarizes the impairments for Mill Creek.

Table 1-3: Impaired Waterbody Segments in the Urbanized Area

ASSESSMENT UNIT ID	WATERBODY NAME	USES	CAUSES	SOURCES
AL03130003-0101-100	Mill Creek	Fish & Wildlife	Organic Enrichment (CBOD,NBOD)	Urban development

1.3.1.1 Mill Creek

According to ADEM’s 2016 303(d) list, Mill Creek was identified as being impaired in 2006. Mill Creek originates in Smiths Station and flows in a southeast direction towards Phenix City. The creek discharges into Holland Creek which flows through the City and discharges into the Chattahoochee River. The confluence is near the Phenix City Riverwalk directly below the Chattahoochee River Whitewater Park. Mill Creek is approximately 9.93 miles long and the impairment is listed for the entire length of the creek.

The Mill Creek watershed is approximately 15,872 acres in size and is highly urbanized with many subdivisions and ongoing construction activities.

Sources of organic enrichment from potential sources within the Mill Creek watershed include:

- Failing septic systems
- Municipal storm water runoff
- Fecal matter from pets and wildlife
- Fertilizer application / yard waste

Part IV.D of the NPDES General Permit requires that the Storm Water Management Program Plan (SWMPP) include Best Management Practices (BMPs) and control measures specifically targeted to control discharges of pollutants associated with the impairment. The SWMPP must also include a monitoring program for parameters attributed to the 303(d) listed impairment.



1.4 Annual Report Components

Part VI of the NPDES General Permit requires that the City of Phenix City develop and submit an Annual Report that reflect activities from April 1, 2017 through March 31, 2018 and include the following:

1. List of contacts and responsible parties for the participation of the Annual Report.
2. Evaluation of the SWMPP development and progress for the following:
 - a. Major accomplishments.
 - b. Overall program strengths and weaknesses.
 - c. Future direction of the program.
 - d. Overall determination of the effectiveness of the SWMPP to water quality/watershed improvements.
 - e. Measurable goals that were not performed and reasons why.
 - f. Evaluation of monitoring data.
3. Measurable goals for each of the five minimum control measures.
4. Proposed changes to the SWMPP, including changes to the BMPs or measurable goals.
5. An assessment of whether or not the existing BMPs are appropriate.
6. Summary of storm water activities planned for the upcoming year.
7. Progress toward reducing the discharge of pollutants to the maximum extent practicable.



2.0 Contacts List

Part VI.4.a of the NPDES Permit requires that the City of Phenix City provide a list of contacts and responsible parties involved in the preparation of the Annual Report. The City of Phenix City Engineering Department, Mayor's office, and City Manager's office are collectively responsible for the coordination and implementation of the City's Annual Report. The individuals responsible for the coordination and implementation of the Annual Report are provided in the table below. Coordination between City Departments may be specified in each section of the 2017-2018 Annual Report.

Table 2-1: City Departments and Responsible Individuals

DEPARTMENT	CONTACT	PHONE NO.	EMAIL
Mayor's Office	Mayor Eddie N. Lowe	334-448-2701	elowe@phenixcityal.us
City Manager's Office	Wallace B. Hunter	334-448-2701	whunter@phenixcityal.us
Engineering Department	Angel Moore, P.E., City Engineer, Director of Engineering and Public Works	334-448-2760	amoore@phenixcityal.us
Engineering Department	Michael Pattillo, Assistant Director of Engineering and Public Works	334-448-2760	mpattillo@phenixcityal.us

Questions concerning the 2017-2018 Annual Report should be directed to the Engineering Department.



3.0 Program Evaluation

3.1 Major Accomplishments

3.1.1 Possible Upcoming Removal of Mill Creek from 303(d) List, as indicated by the 2018 Alabama Draft 303(d) List

While the February 11, 2018 Alabama Draft 303(d) List has not been finalized at this time, we recognize that the possible deletion of Mill Creek from the list of impaired streams represents the continued and collaborative efforts of the City and partnering agencies to address water quality issues and provide long term solutions toward the enhancement of Mill Creek.

3.1.2 Implementation of the Illicit Discharge Detection and Elimination Program and Enforcement of the Illicit Discharge Ordinance

During the previous reporting period the City adopted an ordinance amending the Code of Ordinances of the City of Phenix City, Alabama, adding Chapter 10 ½ Stormwater Management to regulate discharges and connections to the Storm Sewer System within the corporate limits. The City's objectives with this ordinance are to:

1. Regulate the contribution of pollutants to the MS4 by stormwater discharges by any user.
2. Prohibit illicit connections and discharges to the MS4.
3. Establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this ordinance.

During the 2017-2018 reporting period the City sent out letters to 75 existing and new businesses that qualified as a producer of illicit discharges. These letters required the businesses to provide proof of compliance with the illicit discharge ordinance. Notices of Violation were sent and signed for by 12 businesses which had not met their deadline to provide proof of compliance. The ability to purchase or renew a business license was held for each of the businesses until compliance was proven by inspection of existing separator system, installation of new oil and sediment interceptor, installation of a wash mat, receipt of letter, or other suitable method.

3.1.3 Hiring of a Storm Water and Erosion Control Coordinator

The City has hired a Storm Water and Erosion Control Coordinator during the 2017-2018 reporting period. The additional personnel assigned to the storm water program will allow for increased focus and greater efficiency.



3.1.4. Annual Good Housekeeping and IDDE Training

Necessary field personnel from the following departments were trained for the 2017-2018 reporting period:

- Engineering / Public Works
- Cemetery
- Fire Department
- Lakewood Golf Course
- Parks and Recreation
- Public Safety
- Water Filtration
- Waste Water Treatment Plant

The City used new training material that meets the requirements of the Individual Phase II Permit. Applicable City employees will be trained annually as follows:

- Identification of illicit discharges, procedures for reporting suspect and detected illicit discharges.
- Background on the MS4 program.
- Municipal good housekeeping and prevention of storm water pollution within the facilities.
- Construction BMPs.

3.1.5. Continued Stream-Walking Program

City personnel from the Engineering Department are developing and conducting a stream-walking program within the City limits. During the initial phase of the program, the City will locate and identify outfalls and any illicit connections and discharges contributing pollutants into streams and / or the City's storm drainage system.

During the 2017-2018 reporting period, 78 outfalls were identified and a dry weather screening was conducted at each outfall. No illicit discharges or connections were observed and no samples were collected.



3.1.6. Maintaining the Storm Water Management Webpage

During the 2017-2018 reporting period, the City maintained the storm water webpage on the City's website. The webpage includes information such as:

- Storm Water Newsletters
- Links to the Individual Phase II NPDES Permit
- Current 2016 SWMPP
- Current copies of the City's Annual Report
- All storm water related ordinances and policies
- Links to the ADEM website and EPA website
- Link to the City's Action Center where citizens can report the following:
 - Erosion control
 - Illicit discharges
 - Impaired waters
 - Non-compliant construction sites
 - Storm drains and flooding
 - Storm water and illicit discharge ordinance violations

3.1.7. Continued Storm Water Monitoring

The City's monitoring program assesses the effectiveness of the control measures and BMPs in reducing impacts from organic enrichment in Mill Creek. The intent of the monitoring program is to provide sufficient data for evaluation as to whether or not the quality of the receiving waters are sustaining or improving as a result of the control measures and BMPs. The City currently has four (4) monitoring locations along Mill Creek and Holland Creek.

During the 2017-2018 reporting period, the City maintained and recorded storm water rainfalls for 24 hour rain events. 48.6" of rain was recorded for the year.

3.2 Overall Program Strengths/Weaknesses

The City of Phenix City's Storm Water Management Program is considerably stronger and more effective than previous reporting periods.

The City's main strength of the Storm Water Management Program is the revisions to the SWMPP which better reflect the Individual Phase II Permit. The revised SWMPP is better suited for the City's size and is now more goal oriented than the previous SWMPP.

Another strength of the program is the implementation of the IDDE and Illicit Discharge Ordinance. With a stronger direction, the City will be able to regulate the contribution of pollutants to the MS4 by storm water discharges, prohibit illicit connections and discharges to the MS4, and establish legal authority to carry out all inspections, surveillance, and monitoring procedures necessary to ensure compliance with this ordinance.

The final strength of the program is the increase in public education and public involvement. During the 2017-2018 reporting period, the City has increased public knowledge and education with the continued distribution of additional pamphlets and brochures about storm water pollution and prevention.



Pamphlets and brochures were placed within the City departments and at local public offices. The City is maintaining a Storm Water Management Program Webpage with additional educational materials to help citizens become more aware of pollutants entering the storm drainage system.

The main weakness of the City's SWMPP is lack of staff dedicated to the implementation of the program. The Engineering Department currently manages the Storm Water Management Program responsibilities, including GIS location of outfalls, performing required inspections, and assisting with public education and participation efforts. The majority of the work is now handled by two people. The City has recently hired the position of Stormwater and Erosion Control Coordinator, but time is limited due to additional duties. However, the addition of this position and transition of related tasks demonstrate that the City is dedicated to addressing this weakness.

A secondary weakness of the current program is that many of the procedures that are being established to meet the requirements of the Individual Phase II Permit are new. The addition of the IDDE Ordinance and the IDDE Program will make it possible to regulate discharges and connections to the Storm Sewer System within the corporate limits of the City of Phenix City. However, the City recognizes possible complications that inherently arise with the early stages of a relatively new IDDE Program and Ordinance and the revisions to the SWMPP, and is working to create a proactive approach to establish and fine-tune the strategies necessary to better our storm water program.

3.3 Future Direction of the Program

During the upcoming reporting period, the City plans to continue:

- Implementation of the Storm Water Management Program Plan.
- Implementation of the Illicit Discharge Detection and Elimination Program.
- Implementation of the Illicit Discharge Detection and Elimination Ordinance.
- The stream-walking program, locating outfalls and documenting at least 20% a year until complete.
- Ranking outfalls and identifying Priority Areas.
- Working towards the development of a Post-Construction Storm Water Management Ordinance.



4.0 Agency Certification

I certify under penalty of law that this document and all attachments pertaining to the City of Phenix City 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 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 or imprisonment for knowing violations.



Eddie N. Lowe 05/24/18
Eddie N. Lowe, Mayor Date
City of Phenix City, Alabama

Melony Lee 05/24/18
Melony Lee, City Clerk Date
City of Phenix City, Alabama

Wallace B. Hunter 05/24/18
Wallace B. Hunter, City Manager Date
City of Phenix City, Alabama

THE CITY OF PHENIX CITY

CONTROL MEASURE 1 - PUBLIC EDUCATION AND PUBLIC INVOLVEMENT

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	<p>Storm Water Web Page: Maintain the Storm Water web page on the City's Website.</p>	<p>The City has updated and maintained the Storm Water web page on the City's website.</p>	<p>The City will continue maintaining and updating the Storm Water Webpage on the City's website.</p>	<p>https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
2	<p>Annual Report and SWMPP Availability: Provide the SWMPP and current Annual Report for public viewing on the City's website.</p>	<p>The City has posted the current copy of the SWMPP and the current copy of the 2017-2018 Annual Report on the City's webpage for viewing.</p>	<p>The City will continue to provide a copy of the current SWMPP and Annual Report for public viewing on the City's webpage.</p>	<p>https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
3	<p>Storm Water Educational Material: Develop and distribute educational materials to citizens and business owners by placement at City locations.</p>	<p>The City is currently distributing educational materials to citizens and business owners by placement at City locations. 150 brochures were distributed.</p>	<p>The City will continue looking for new educational materials to educate employees, citizens and business owners.</p>	<p>Copies of all education materials are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
4	<p>Help the Hooch: Promote and participate in the annual cleanup for the Chattahoochee River.</p>	<p>The City helped promote the Help the Hooch annual cleanup for the Chattahoochee River by advertising on the City's webpage and on the City's marquee locations. Public Works hauled trash and debris that was pulled out of the river from the event.</p>	<p>The City will continue advertising and participating in the Help the Hooch annual cleanup.</p>	<p>Amount of trash and debris are included in the Solid Waste quarterly report of volume. Copies of the quarterly report are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
5	<p>Riverwalk Cleanup: Cleanup and maintenance of the 1.1-mile Riverwalk structure.</p>	<p>The Parks and Recreation Department maintains the 1.1-mile Riverwalk structure.</p>	<p>The Parks and Recreation Department will continue maintaining the 1.1-mile Riverwalk structure.</p>	<p>Amount of trash and debris are recorded in the Solid Waste quarterly report of volume. Copies of the quarterly report are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
6	<p>Partnerships in Educational and Public Involvement Events: Partner with Auburn University, EPA, and ADEM to improve Mill Creek, distribute educational materials and promote events.</p>	<p>The City distributes educational material quarterly and promotes events on the City's marquee locations. Inspired by the accomplishments evident with the completion of the Mill Creek Project, the City is currently researching new opportunities and partnerships.</p>	<p>The City will look for new ways to help improve Mill Creek by distributing new educational material and continue to volunteer and promote events.</p>	<p>The City publishes newsletters giving helpful tips and ways to reduce pollution within the City's waterways.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

7	<p>Recycling Center: Manage drop-off facilities at 1100 Airport Road and 709 12th Street.</p>	<p>The City is currently managing both drop-off facilities. 49 tons of recyclables were reported for the 2017-2018 reporting period.</p>	<p>The City will continue managing the recycling drop-off locations. The City is currently investigating a possible location for a 3rd Recycling Center to promote and encourage more recycling.</p>	<p>https://phenixcityal.us/engineering-public-works/public-works-division/recycling-centers/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
8	<p>Public Reporting and Tracking System: Provide a contact number on the City's Storm Water Management webpage for the public to provide input on the development, revision, and implementation of the SWMPP.</p>	<p>The City currently has contact information on the Storm Water Management webpage for the public to provide input on the development, revision, and implementation of the SWMPP.</p>	<p>This activity's implementation status has proven to be effective and will continue to provide input on the development, revision, and implementation of the SWMPP.</p>	<p>https://phenixcityal.us/action-center/ https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

THE CITY OF PHENIX CITY

CONTROL MEASURE 2 - ILLICIT DISCHARGE DETECTION AND ELIMINATION

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	<p>Identify Priority Areas: Evaluate the drainage basins and determine the Priority Areas for the reporting period.</p>	<p>The City is actively evaluating drainage areas to determine the Priority Areas.</p>	<p>The City will continue evaluating drainage areas to establish Priority Areas.</p>	<p>Once the City determines the Priority Areas, a score for each drainage basin and an updated map will be provided.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
2	<p>Outfall Identification: Implement a stream-walking program to identify outfalls and re-evaluate known outfalls.</p>	<p>The City continues to implement the stream-walking program to identify outfalls and re-evaluate any known outfalls. 78 outfalls for 2017-2018. 3 miles (cumulative) walked for 2017-2018. 159 total outfalls located/identified since permit renewal.</p>	<p>The City will continue implementing a stream-walking program to identify outfalls and re-evaluate any known outfalls.</p>	<p>The city will report the number of outfalls identified and the stream length walked that reporting period. All located outfalls will be added to the City's outfall location map.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
3	<p>Probable Outfall Verification: Add probable outfalls to the Storm Sewer System Map and label as unverified. Verify outfalls within 18 months.</p>	<p>The City receives as-built surveys of new developments and field verifies outfalls prior to acceptance into the City of Phenix City maintenance program. There are 5 new developments currently under construction. The City has verified 0 new outfalls.</p>	<p>The City will continue to field verify outfalls that are identified on as-built surveys received and locate the identified outfalls in GIS. The City will continue to map probable outfalls.</p>	<p>The City will report the number of probable outfalls that were verified during the reporting period.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
4	<p>Outfall Reconnaissance Inventory: Conduct dry weather monitoring of 15% of major outfalls in Priority Areas.</p>	<p>The City has located and inspected 78 outfalls. Dry weather monitoring activities may be combined with outfall verification as described in Activity 3.</p>	<p>The City will continue dry weather monitoring and report the number outfalls inspected during the reporting period.</p>	<p>Outfall Reconnaissance Inventory Field Sheets will be available upon request.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
5	<p>Suspect Discharge Sampling: Field crews will collect samples of suspected illicit discharges for laboratory analysis.</p>	<p>0 suspect illicit discharges were investigated.</p>	<p>The City will continue sampling any suspected discharges observed during scheduled inspections.</p>	<p>If any suspect discharges are identified, the outfall will be sampled and the City will report the laboratory analysis results for the collected samples.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
6	<p>Outfall Ranking: Designate the inspected outfalls as having obvious, suspect, possible, or unlikely discharge potential based on data from each ORI Field Sheet.</p>	<p>78 outfalls were located and designated as having unlikely discharge potential.</p>	<p>The City will continue to designate rankings of outfalls based on investigations, scheduled inspections and results from the ORI Field Sheet.</p>	<p>If any discharges are identified, a laboratory analysis will be available upon request.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
7	<p>Discharge Investigation: Illicit discharge investigations will be performed to determine the source of a discharge problem.</p>	<p>0 suspect discharges were identified and no investigations were performed.</p>	<p>The City will continue to investigate all illicit discharges and determine the source of the discharge problem.</p>	<p>If any source of discharges are determined the City will report the number of investigations and the number of confirmed reported discharges during the reporting period.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>

8	<p>Corrective Action Record Keeping: Create a case log detailing pertinent information for each identified suspect illicit discharge or illicit connection.</p>	<p>The City is developing a case log detailing pertinent information for each identified illicit discharge or illicit connection.</p> <p>0 reported illicit discharges. 0 reported corrective actions.</p>	<p>The City will maintain a case log for each identified illicit discharge or illicit connection and the corrected actions taken.</p>	<p>If any illicit discharges are reported, the City will report the number of confirmed corrective actions that were taken during the reporting period.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
9	<p>Update Storm Water System Map - Existing Features: Update the existing Storm Water System Map as new outfalls are identified and BMPs are added.</p>	<p>The City is currently updating it's existing Storm Water System Map as new outfalls are identified and as new BMPs are added.</p>	<p>The City will continue updating it's Storm Water System Map and state whether updates were made and, if needed, provide an updated Storm Water System Map showing the features added during the reporting period.</p>	<p>The City will provide a current copy of the Storm Water System Map each reporting period.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
10	<p>Update Storm Water System Map - Future Additions: Proposed additions to the City MS4, including new storm sewer and drainage ditches, will be mapped based on the civil plans provided to the City.</p>	<p>The City is currently updating it's existing Storm Water System Map with proposed additions from as-built surveys submitted of new development features and conveyances. New outfalls are verified after construction is complete.</p> <p>8 new construction plans were submitted to the City. 0 new features, conveyances or outfalls were verified at this time.</p>	<p>The City will continue updating it's Storm Water System Map and state whether updates were made and, if needed, provide an updated Storm Water System Map showing the features, conveyances or outfalls added during the reporting period.</p>	<p>The City will provide a current copy of the Storm Water System Map each reporting period.</p>	<p>No proposed changes at this time.</p>	<p>In Progress</p>
11	<p>Evaluate IDDE Ordinance: IDDE Ordinance Chapter 10 ½ Storm Water Management was approved on February 7, 2017 and will define illicit discharge and responsibility.</p> <p>Evaluate the effectiveness of the Ordinance each reporting period.</p>	<p>The City's IDDE Ordinance 10 ½ Storm Water Management was approved and adopted on February 7th, 2017.</p> <p>This reporting period, the City had: 0 complaints received. 75 (potential) illicit discharges identified. 75 resolved (potential) violations. 0 repeat offenders. 12 enforcement actions-(NOV letters)</p>	<p>The City will evaluate the Ordinance to determine the effectiveness in addressing identified illicit discharges and preventing repeat offenders. The City will report the number of complaints received, number of illicit discharges identified during the reporting period, the number of resolved violations, the number of repeat offenders, and the number of enforcement actions.</p>	<p>If any illicit discharges are reported, the City will report the number of confirmed corrective actions that were taken during the reporting period.</p> <p>The City has copies of Notice of Violation letters available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
12	<p>Distribute Storm Water Educational Material: Distribute educational materials to public highlighting identification and reporting of potential illicit discharges.</p>	<p>The City is currently distributing Educational material to the public, highlighting identification and reporting of potential illicit discharges.</p>	<p>The City will continue distributing Educational material to the public, highlighting identification and reporting of potential illicit discharges.</p>	<p>The City will provide copies of distributed educational material during the reporting period.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

13	<p>Public Reporting and Tracking: Provides a phone number and electronic form on website for public to report non-compliant construction sites, illicit discharges, impaired waters, and ordinance violations.</p>	<p>The City currently provides a contact number on the City's Storm Water Management webpage for the public to report non-compliant construction sites, illicit discharges (including spills or illegal dumping), impaired waterways, and violations of ordinances relating to storm water pollution.</p> <p>0 Illicit discharge complaints were received.</p>	<p>The City will continue to provide reporting methods and provide educational materials on the storm water webpage. The City will evaluate the current public reporting and tracking methods annually to determine effectiveness of public reporting.</p>	<p>https://phenixcityal.us/action-center/</p> <p>https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
14	<p>Municipal Training: Train City personnel on the identification of illicit discharges, procedures for reporting illicit discharges, and prevention of storm water pollution at facilities.</p>	<p>The City is implementing new training material for the identification of illicit discharges, procedures for reporting illicit discharges, and prevention of storm water pollution at the City's facilities.</p> <p>42 City employees attended municipal training sessions during the 2017-2018 reporting period.</p>	<p>Municipal training for all facility employees will continue annually.</p>	<p>The City will keep attendance records and report the number of municipal workers trained during the reporting period.</p> <p>Attendance records are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
15	<p>Storm Water Monitoring Locations: Update existing Storm Water System Map with storm water monitoring locations.</p>	<p>The City has updated it's Storm Water System Map with the current storm water monitoring locations.</p>	<p>Storm water monitoring at these locations have proven to be effective for determining storm water quality and the City will continue monitoring for each reporting period.</p>	<p>The City will provide a Storm Water System Map showing the locations during the reporting period.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
16	<p>Evaluation of Monitoring Data: Evaluate the collected monitoring data and make recommendations to add and/or modify monitoring points.</p>	<p>The City currently monitors four (4) locations along Mill Creek and Holland Creek. No abnormal data has been detected.</p>	<p>The City will continue to evaluate the effectiveness of the monitoring locations.</p>	<p>The City will report which monitoring points appear to have relatively higher pollutant loads. The City may add and/or modify monitoring points to better characterize discharges from the MS4.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
17	<p>NPDES Industrial Permitting: Obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and report unpermitted facilities.</p>	<p>The City will evaluate and obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and report unpermitted facilities.</p> <p>Unpermitted facilities that require an NPDES permit will be reported to the Industrial Section of the ADEM in Montgomery, Alabama.</p> <p>0 Unpermitted facilities were reported.</p>	<p>The City will continue to evaluate and obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and continue to report unpermitted facilities.</p> <p>Any unpermitted facilities will be Reported to ADEM.</p>	<p>The City will provide the number of unpermitted facilities reported to ADEM during the reporting period.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

THE CITY OF PHENIX CITY

CONTROL MEASURE 3 - CONSTRUCTION SITE STORM WATER RUNOFF

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	<p>Erosion and Sediment Control Ordinance: The City's Erosion and Sedimentation Control Policy gives authority for the City to implement its Construction Site Storm Water Runoff Program.</p> <p>Evaluate the effectiveness of the Policy each reporting period.</p>	<p>The City is currently implementing and evaluating the effectiveness of its Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007.</p> <p>2 non-compliant construction sites identified by the City. 2 enforcement actions taken- (NOV letters). 0 sites reported to ADEM. 0 repeat offenders.</p>	<p>The City will continue to implement and evaluate the effectiveness of its Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007.</p> <p>The City will evaluate the effectiveness of the Policy during each reporting period. If changes are warranted, a new or revised ordinance will be approved and implemented by the City Council.</p>	<p>The City has copies of non-compliant letters available upon request.</p> <p>https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/</p>	No proposed changes at this time.	Yes
2	<p>Sediment and Erosion Control Plan Review: Review Sediment and Erosion Control Plans for all permit applications.</p>	<p>The City currently reviews the Sediment and Erosion Control Plans for all permit applications. Plan review ensures proposed projects adequately address the City's erosion, sediment, and pollution control requirements and takes into consideration what potential impacts to water quality the project may have.</p> <p>8 plans have been submitted. 8 plans have been reviewed. 7 plans have been approved. 1 plan has been denied. 7 plans that meet the requirements of the Alabama Construction General Permit.</p>	The City will continue to review Sediment and Erosion Control Plans for all permit applications.	Copies of Sediment and Erosion Control Plans will be available upon request.	No proposed changes at this time.	Yes
3	<p>Construction Site Inspection Program: Conduct inspections of qualifying construction sites within 60 days of initial disturbance, periodically during construction, and following stabilization.</p>	<p>Designated City personnel inspect all qualifying construction sites after initial disturbance, once a month or after each qualifying rain event during construction, and following stabilization.</p> <p>1 non-compliant construction sites identified by the City. 1 enforcement actions taken- (NOV letter). 0 repeat offenders.</p>	Designated City personnel will continue to inspect all qualifying construction sites after initial disturbance, once a month or after each qualifying rain event during construction, and following stabilization.	The City has provided an example for one inspection conducted during the reporting period that resulted in a 72 Hour Letter being issued.	No proposed changes at this time.	Yes

4	<p>BMP Training Program: Conduct annual training for City inspectors and reviewers.</p>	<p>City personnel currently continue annual Qualified Credentialed Inspectors (QCIs) and storm water awareness refresher courses for personnel conducting BMP inspections.</p> <p>Paul Chastain (QCI #T0716) Rebecca Woods (QCI #T4814) Richard Carlson (QCI#63899) QCI certifications were maintained through the approved annual refresher courses.</p> <p>Paul Chastain (CSI Certificate #8867) has completed the requirements for Certified Stormwater Inspector.</p>	<p>The City will continue annual Qualified Credentialed Inspectors (QCIs) and storm water awareness refresher courses for personnel conducting BMP inspections.</p>	<p>The City has provided copies of the QCI certificates or initial training certificates and/or records of awareness training received during the reporting period. Also included is a copy of CSI certificate.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
5	<p>Public Reporting and Tracking: Provides a phone number and electronic form on website for public to report non-compliant construction sites, illicit discharges, impaired waters, and ordinance violations.</p>	<p>The City currently provides a phone number and electronic forms on the City's webpage for the public to report:</p> <ul style="list-style-type: none"> - Non-compliant construction sites - Illicit discharges - Impaired waters - Ordinance violations. <p>2 inquiries received. 2 complaints addressed. 2 complaints resolved.</p>	<p>The City will continue to provide a phone number and electronic forms on the City's webpage for the public to report:</p> <ul style="list-style-type: none"> - Non-compliant construction sites - Illicit discharges - Impaired waters - Ordinance violations. 	<p>https://phenixcityal.us/action-center/ https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
6	<p>Notify ADEM of Non-Compliant Sites: The City will notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred.</p>	<p>The City will notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred.</p> <p>0 non-compliant construction sites were reported to ADEM.</p>	<p>The City will continue to notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred.</p>	<p>No documents available at this time.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

THE CITY OF PHENIX CITY
CONTROL MEASURE 4 - POST-CONSTRUCTION STORM WATER MANAGEMENT

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	<p>Post-Construction Storm Water Management Policy: City's Erosion and Sediment Control Policy allows the City to enforce the design and implementation of post construction storm water management BMPs.</p> <p>Evaluate the effectiveness of the Policy each reporting period.</p>	<p>The City is currently implementing and evaluating the effectiveness of it's Post Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007.</p> <p>8 plans have been submitted and include measures to reduce runoff volume.</p>	<p>The City is in the process of implementing and updating a Post Construction Site Storm Water Runoff Program.</p>	<p>A copy of the Erosion and Sedimentation Control Policy is available upon request or it can be viewed on the City's Storm Water Webpage at:</p> <p>https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/</p>	<p>The City is working to develop a separate Post-Construction Storm Water Ordinance.</p>	<p>In Progress</p>
2	<p>Long-Term Maintenance for Storm Water Controls: Erosion and Sediment Control Policy allows City to ensure long-term operation and maintenance of storm water management BMPs.</p> <p>Evaluate the effectiveness of the Policy each reporting period.</p>	<p>The City currently implements the Erosion and Sediment Control Policy to ensure adequate long-term operation and maintenance of post construction storm water management BMPs.</p> <p>8 plans were submitted that that include detailed maintenance procedures. 8 maintenance agreements reviewed. 7 plans with maintenance provisions approved. 1 plan with maintenance provisions denied. 0 enforcement actions taken.</p>	<p>The City will continue to implement The Erosion and Sediment Control Policy. However, the Policy will be evaluated each reporting period. If changes are warranted, a new or revised ordinance will be approved and implemented by the City Council.</p>	<p>Copies of plans and agreements are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
3	<p>Evaluate Obstacles to Low Impact/Green Development: Review and evaluate policies and ordinances to identify regulatory and policy impediments to the installation of green infrastructure and low-impact development techniques.</p>	<p>The City does not currently evaluate, have a policy, or have an ordinance to identify regulatory and policy impediments to the installation of green infrastructure and low-impact development techniques.</p>	<p>The City will review and evaluate policies and ordinances related to building codes, or other local regulations, with a goal of identifying regulatory and policy impediments to the installation of green infrastructure and low-impact development techniques.</p>	<p>No documents available at this time.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
4	<p>Plan Review: Review sediment and erosion control plans and storm water management plans for all new construction prior to approval or denial of permit application.</p>	<p>The City currently reviews sediment and erosion control plans and storm water management plans for all new construction prior to approval or denial of permit application.</p> <p>8 plans were submitted for review.</p>	<p>The City will continue to review Sediment and erosion control plans and storm water management plans for all new construction prior to approval or denial of permit application.</p>	<p>Copies of plans are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

5	<p>Post Construction Site Inspection Program: Inspect post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan.</p> <p>Annually inspect each site to confirm post-construction BMPs are functioning as designed.</p> <p>Evaluate the effectiveness of the inspection program.</p>	<p>Designated personnel currently inspect post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan.</p> <p>94 detention ponds were inspected. 3 new detention ponds were installed.</p>	<p>Designated personnel will continue to inspect post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan.</p>	<p>The City will maintain inspection documentation for review upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
6	<p>Post-Construction Structural Controls Inventory: Update an inventory of post-construction structural controls including those owned by the City.</p>	<p>The City will compile an inventory of post-construction structural controls including those owned by the City.</p>	<p>The City will continue maintaining an inventory of post-construction structural controls including those owned by the City.</p>	<p>The City will maintain an inventory of post-construction structural controls including those owned by the City. Documents are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

THE CITY OF PHENIX CITY

CONTROL MEASURE 5 - POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	<p>Municipal Facilities: Maintain a list of municipal facilities that have the potential to discharge pollutants through storm water runoff.</p> <p>Inspect facilities for good housekeeping practices.</p>	<p>The City has 11 municipal facilities that have the potential to discharge pollutants through storm water runoff and inspects these facilities quarterly for good housekeeping practices.</p> <p>0 Deficiencies Noted</p>	<p>Continue monitoring the municipal facilities for good housekeeping and stormwater pollution prevention through a municipal quarterly BMP inspection checklist.</p>	<p>The City will provide quarterly Municipal Facility BMP Inspection Checklists upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
2	<p>Employee Training: Training program for municipal employees that focuses on pollution prevention, good housekeeping, illicit discharge identification, and other threats to storm water quality.</p>	<p>The City developed new training material for pollution prevention, good housekeeping, illicit discharge identification, and other threats to storm water quality.</p> <p>42 City employees attended municipal training sessions during the 2017-2018 reporting period.</p>	<p>Municipal training will continue annually.</p>	<p>The City will keep attendance records and report the number of municipal workers trained during the reporting period.</p> <p>Attendance records are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
3	<p>Vehicle Maintenance Program: Conduct routine inspections of municipal vehicles and equipment.</p>	<p>The City conducts routine inspections of municipal vehicles and equipment.</p>	<p>Continue routine inspections of municipal vehicles and equipment.</p>	<p>The City's inspections of municipal vehicles and equipment is logged through PubWorks and copies of inspections are available upon request.</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
4	<p>Litter and Debris Pickup Policy: City Ordinance Section 12-5 provides curbside collection of limbs and debris on a weekly basis.</p>	<p>Per City Ordinance Section 12-5, The City is currently providing a curbside pickup of limbs and debris on a weekly basis.</p> <p>30,235 tons of limbs and debris were reported for the 2017-2018 reporting period.</p>	<p>The City will continue providing a curbside pickup of limbs and debris on a weekly basis.</p>	<p>Copies of City's solid waste quarterly reports are available upon request.</p> <p>The City's Limb and Debris Pickup Policy can be reviewed at: https://phenixcityal.us/engineering-public-works/public-works-division/limbs-debris/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
5	<p>Large Item Pickup Policy: City Ordinance Section 12-5 provides curbside collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis.</p>	<p>The City is currently providing a curbside pickup collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis.</p> <p>The amount of curbside pickup is included in the solid waste quarterly report.</p>	<p>The City will continue providing a curbside pickup collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis.</p>	<p>Copies of City's solid waste quarterly reports are available upon request.</p> <p>The City's Limb and Debris Pickup Policy can be reviewed at: https://phenixcityal.us/engineering-public-works/public-works-division/limbs-debris/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>

6	<p>Litter, Floatables, and Debris - Recycling Program:</p> <p>Manage drop-off facilities at 1100 Airport Road and 709 12th Street.</p> <p>Manage tire removal program.</p>	<p>The City manages a voluntary recycling program. The City offers two drop-off locations within the City. This program is advertised on the City website. The materials accepted as part of this program are provided on the website as well.</p> <p>49 tons of recyclables were reported for the 2017-2018 reporting period.</p> <p>approximately 2187 tires were removed during the reporting period.</p>	<p>The City will continue to manage a voluntary recycling program. The City offers two drop-off locations within the City. This program is advertised on the City website. The materials accepted as part of this program are provided on the website as well.</p> <p>The City will evaluate and consider the addition of a third recycling location.</p>	<p>Quarterly reports for recyclables are available upon request.</p> <p>https://phenixcityal.us/engineering-public-works/public-works-division/recycling-centers/</p>	<p>No proposed changes at this time.</p>	<p>Yes</p>
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Outfall Number	Lat / Long	Description	Stream
Outfall 1	Lat: 32.520469 Long: -85.066078	DITCH	HOLLAND CREEK
Outfall 2	Lat: 32.510986 Long: -85.049103	DITCH	HOLLAND CREEK
Outfall 3	Lat: 32.510853 Long: -85.049214	DITCH	HOLLAND CREEK
Outfall 4	Lat: 32.501694 Long: -85.038222	36" RCP	HOLLAND CREEK
Outfall 5	Lat: 32.501858 Long: -85.038172	18" RCP	HOLLAND CREEK
Outfall 6	Lat: 32.502128 Long: -85.038389	DITCH	HOLLAND CREEK
Outfall 7	Lat: 32.490183 Long: -84.998906	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 8	Lat: 32.490228 Long: -84.998919	FLUME	UNNAMED TRIBUTARY
Outfall 9	Lat: 32.490203 Long: -84.998822	FLUME	UNNAMED TRIBUTARY
Outfall 10	Lat: 32.490983 Long: -84.996614	24" RCP	CHATAHOOCHEE RIVER
Outfall 11	Lat: 32.490522 Long: -84.996544	18" CONCRETE PIPE	CHATAHOOCHEE RIVER
Outfall 12	Lat: 32.490036 Long: -85.000164	18" CMP	UNNAMED TRIBUTARY
Outfall 13	Lat: 32.489203 Long: -85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 14	Lat: 32.489189 Long: -85.001806	FLUME	UNNAMED TRIBUTARY
Outfall 15	Lat: 32.489142 Long: -85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 16	Lat: 32.489181 Long: -85.001625	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 17	Lat: 32.489244 Long: -85.001658	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 18	Lat: 32.489158 Long: -85.005019	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 19	Lat: 32.489472 Long: -85.006853	36" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 20	Lat: 32.490567 Long: -85.026297	(2) 30" RCP	HOLLAND CREEK
Outfall 21	Lat: 32.513681 Long: -85.027664	42" CMP	HOLLAND CREEK
Outfall 22	Lat: 32.513683 Long: -85.027600	DITCH	HOLLAND CREEK
Outfall 23	Lat: 32.503319 Long: -85.034314	DITCH	UNNAMED TRIBUTARY
Outfall 24	Lat: 32.504250 Long: -85.034106	DITCH	UNNAMED TRIBUTARY
Outfall 25	Lat: 32.502442 Long: -85.034425	FLUME	UNNAMED TRIBUTARY
Outfall 26	Lat: 32.502306 Long: -85.034417	FLUME	UNNAMED TRIBUTARY
Outfall 27	Lat: 32.478350 Long: -85.049522	24" RCP	MILL CREEK
Outfall 28	Lat: 32.491567 Long: -85.042697	DITCH	MILL CREEK
Outfall 29	Lat: 32.490244 Long: -85.037231	DITCH	MILL CREEK
Outfall 30	Lat: 32.490050 Long: -85.037203	FLUME	MILL CREEK
Outfall 31	Lat: 32.490150 Long: -85.037392	FLUME	MILL CREEK
Outfall 32	Lat: 32.490358 Long: -85.037378	FLUME	MILL CREEK
Outfall 33	Lat: 32.491778 Long: -85.033092	DITCH	HOLLAND CREEK

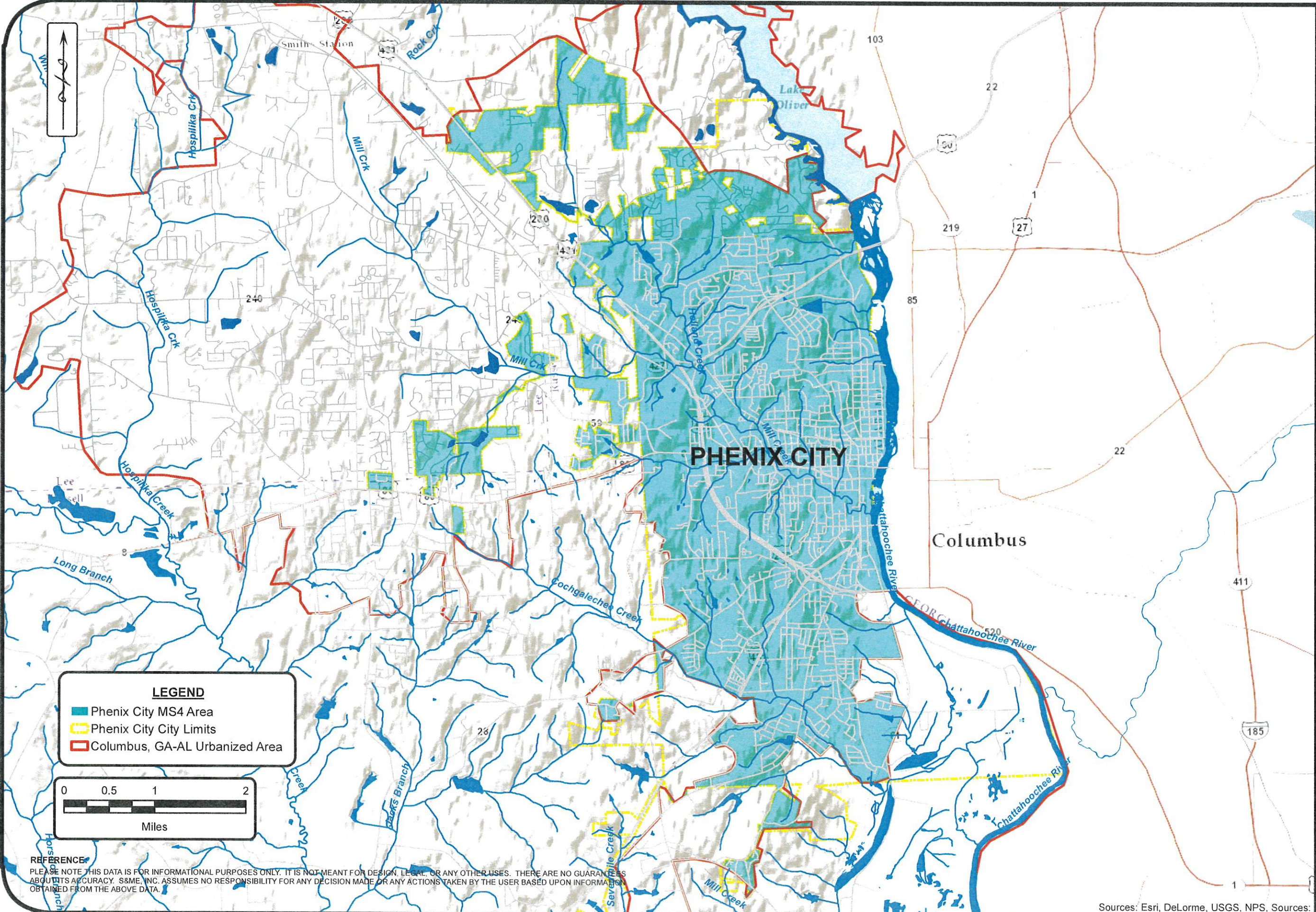
Outfall 34	Lat: 32.491928 Long: -85.033239	FLUME	HOLLAND CREEK
Outfall 35	Lat: 32.491981 Long: -85.033083	DITCH	HOLLAND CREEK
Outfall 36	Lat: 32.491917 Long: -85.033017	DITCH	HOLLAND CREEK
Outfall 37	Lat: 32.483475 Long: -85.028461	24" RCP	HOLLAND CREEK
Outfall 38	Lat: 32.483978 Long: -85.027750	24" RCP	HOLLAND CREEK
Outfall 39	Lat: 32.514572 Long: -85.003631	24" RCP	CHATAHOOCHEE RIVER
Outfall 40	Lat: 32.514514 Long: -85.004131	24" RCP	CHATAHOOCHEE RIVER
Outfall 41	Lat: 32.514181 Long: -85.004756	24" RCP	CHATAHOOCHEE RIVER
Outfall 42	Lat: 32.514525 Long: -85.004619	DITCH	CHATAHOOCHEE RIVER
Outfall 43	Lat: 32.514597 Long: -85.004547	BOAT RAMP	CHATAHOOCHEE RIVER
Outfall 44	Lat: 32.434822 Long: -85.012436	DITCH	COCHGALECHEE CREEK
Outfall 45	Lat: 32.488878 Long: -85.033781	FLUME	MILL CREEK
Outfall 46	Lat: 32.489225 Long: -85.034119	FLUME	MILL CREEK
Outfall 47	Lat: 32.489100 Long: -85.034406	CURB INLET	MILL CREEK
Outfall 48	Lat: 32.489000 Long: -85.034725	FLUME	MILL CREEK
Outfall 49	Lat: 32.489031 Long: -85.035522	24" CONCRETE PIPE	MILL CREEK
Outfall 50	Lat: 32.507547 Long: -85.004239	FLUME	CHATAHOOCHEE RIVER
Outfall 51	Lat: 32.463653 Long: -84.998917	24" RCP	CHATAHOOCHEE RIVER
Outfall 52	Lat: 32.463278 Long: -84.998956	24" CONCRETE PIPE	CHATAHOOCHEE RIVER
Outfall 53	Lat: 32.463228 Long: -84.998956	24" CONCRETE PIPE	CHATAHOOCHEE RIVER
Outfall 54	Lat: 32.453925 Long: -84.996019	DITCH	CHATAHOOCHEE RIVER
Outfall 55	Lat: 32.433819 Long: -84.992158	30" CONCRETE PIPE	COCHGALECHEE CREEK
Outfall 56	Lat: 32.433825 Long: -84.992125	24" RCP	COCHGALECHEE CREEK
Outfall 57	Lat: 32.434311 Long: -84.992367	24" CMP	COCHGALECHEE CREEK
Outfall 58	Lat: 32.434333 Long: -84.992350	24" CMP	COCHGALECHEE CREEK
Outfall 59	Lat: 32.471136 Long: -84.997647	18" RCP	CHATAHOOCHEE RIVER
Outfall 60	Lat: 32.472006 Long: -84.997347	15" RCP	CHATAHOOCHEE RIVER
Outfall 61	Lat: 32.472525 Long: -84.997186	12" RCP	CHATAHOOCHEE RIVER
Outfall 62	Lat: 32.473381 Long: -84.996956	36" RCP	CHATAHOOCHEE RIVER
Outfall 63	Lat: 32.474194 Long: -84.996297	24" RCP	CHATAHOOCHEE RIVER
Outfall 64	Lat: 32.474103 Long: -84.996383	36" RCP	CHATAHOOCHEE RIVER
Outfall 65	Lat: 32.474642 Long: -84.995864	36" RCP	CHATAHOOCHEE RIVER
Outfall 66	Lat: 32.475569 Long: -84.995711	18" RCP	CHATAHOOCHEE RIVER
Outfall 67	Lat: 32.477058 Long: -84.995553	24" CMP	CHATAHOOCHEE RIVER

Outfall 68	Lat: 32.478169 Long: -84.995558	24" CMP	CHATAHOOCHEE RIVER
Outfall 69	Lat: 32.478622 Long:- 84.995336	FLUME	CHATAHOOCHEE RIVER
Outfall 70	Lat: 32.480781 Long: -84.995283	18" CMP	CHATAHOOCHEE RIVER
Outfall 71	Lat: 32.506703 Long: -85.003631	48" RCP	UNNAMED TRIBUTARY
Outfall 72	Lat: 32.506625 Long: -85.003536	12' CULVERT	UNNAMED TRIBUTARY
Outfall 73	Lat: 32.497017 Long: -85.034225	MONITORING LOCATION 1	HOLLAND CREEK
Outfall 74	Lat: 32.468581 Long: -85.006019	18" RCP	HOLLAND "MILL" CREEK
Outfall 75	Lat: 32.468711 Long: -85.006247	18" RCP	HOLLAND "MILL" CREEK
Outfall 76	Lat: 32.471231 Long: -85.009125	18" RCP	HOLLAND "MILL" CREEK
Outfall 77	Lat: 32.471453 Long: -85.009214	24" CLAY PIPE	HOLLAND "MILL" CREEK
Outfall 78	Lat: 32.471256 Long: -85.009506	24" RCP	HOLLAND "MILL" CREEK
Outfall 79	Lat: 32.488050 Long: -85.060822	MONITORING LOCATION 3	MILL CREEK
Outfall 80	Lat: 32.465211 Long: -84.998792	DITCH	HOLLAND "MILL" CREEK
Outfall 81	Lat: 32.465214 Long: -84.998992	DITCH	HOLLAND "MILL" CREEK
Outfall 82	Lat: 32.465179 Long: -84.999224	FLUME	HOLLAND "MILL" CREEK
Outfall 83	Lat: 32.465481 Long: -84.002677	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 84	Lat: 32.467650 Long: -84.002130	36" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 85	Lat: 32.467740 Long: -84.002221	4" PVC PIPE	HOLLAND "MILL" CREEK
Outfall 86	Lat: 32.467769 Long: -85.002291	36" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 87	Lat: 32.468290 Long: -85.003570	96" CMP	HOLLAND "MILL" CREEK
Outfall 88	Lat: 32.467601 Long: -85.002677	FLUME	HOLLAND "MILL" CREEK
Outfall 89	Lat: 32.449090 Long: -85.029244	24" RCP	UNNAMED TRIBUTARY
Outfall 90	Lat: 32.467810 Long: -85.003965	DITCH	HOLLAND "MILL" CREEK
Outfall 91	Lat: 32.468470 Long: -85.004785	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 92	Lat: 32.449133 Long: -85.029175	DITCH	UNNAMED TRIBUTARY
Outfall 93	Lat: 32.470700 Long: -85.004040	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
Outfall 94	Lat: 32.470321 Long: -85.015066	DRAIN INLET	UNNAMED TRIBUTARY
Outfall 95	Lat: 32.470320 Long: -85.015060	6" PIPE	UNNAMED TRIBUTARY
Outfall 96	Lat: 32.470250 Long: -85.015200	6" PIPE	UNNAMED TRIBUTARY
Outfall 97	Lat: 32.470250 Long: -85.015195	DRAIN INLET	UNNAMED TRIBUTARY
Outfall 98	Lat: 32.470140 Long: -85.015380	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 99	Lat: 32.471010 Long: -85.014691	DRAIN INLET	UNNAMED TRIBUTARY
Outfall 100	Lat: 32.471090 Long: -85.014630	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 101	Lat: 32.471067 Long: -85.014614	DRAIN INLET	UNNAMED TRIBUTARY

Outfall 102	Lat: 32.471069 Long: -85.014723	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 103	Lat: 32.469840 Long: -85.013920	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 104	Lat: 32.469850 Long: -85.013850	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 105	Lat: 32.488361 Long: -85.030111	DITCH/TRIBUTARY CREEK	HOLLAND "MILL" CREEK
Outfall 106	Lat: 32.479991 Long: -85.026190	15" RCP	HOLLAND "MILL" CREEK
Outfall 107	Lat: 32.478850 Long: -85.023311	36" CMP	HOLLAND "MILL" CREEK
Outfall 108	Lat: 32.478720 Long: -85.021264	FLUME	HOLLAND "MILL" CREEK
Outfall 109	Lat: 32.474402 Long: -85.017163	24" RCP	HOLLAND "MILL" CREEK
Outfall 110	Lat: 32.467072 Long: -85.001814	MONITORING LOCATION 2	HOLLAND "MILL" CREEK
Outfall 111	Lat: 32.488556 Long: -85.030772	MONITORING LOCATION 4	HOLLAND/MILL CREEK
Outfall 112	Lat: 32.484768 Long: -85.028844	24" RCP	HOLLAND "MILL" CREEK
Outfall 113	Lat: 32.473952 Long: -85.026133	FLUME	UNNAMED TRIBUTARY
Outfall 114	Lat: 32.473971 Long: -85.026100	FLUME	UNNAMED TRIBUTARY
Outfall 115	Lat: 32.473942 Long: -85.026083	18" RCP	UNNAMED TRIBUTARY
Outfall 116	Lat: 32.474101 Long: -85.026100	30" RCP	UNNAMED TRIBUTARY
Outfall 117	Lat: 32.474112 Long: -85.026587	18" CMP	UNNAMED TRIBUTARY
Outfall 118	Lat: 32.473904 Long: -85.028302	14" HDP	UNNAMED TRIBUTARY
Outfall 119	Lat: 32.474009 Long: -85.028801	12" RCP	UNNAMED TRIBUTARY
Outfall 120	Lat: 32.472869 Long: -85.031381	16" CMP	UNNAMED TRIBUTARY
Outfall 121	Lat: 32.472714 Long: -85.031582	36" CMP	UNNAMED TRIBUTARY
Outfall 122	Lat: 32.474010 Long: -85.025948	FLUME	UNNAMED TRIBUTARY
Outfall 123	Lat: 32.472453 Long: -85.025778	FLUME	UNNAMED TRIBUTARY
Outfall 124	Lat: 32.472633 Long: -85.025740	FLUME	UNNAMED TRIBUTARY
Outfall 125	Lat: 32.473367 Long: -85.025262	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 126	Lat: 32.473520 Long: -85.024956	FLUME	UNNAMED TRIBUTARY
Outfall 127	Lat: 32.473830 Long: -85.023483	48" CMP	UNNAMED TRIBUTARY
Outfall 128	Lat: 32.473921 Long: -85.023044	4" CLAY	UNNAMED TRIBUTARY
Outfall 129	Lat: 32.474367 Long: -85.021936	18" RCP	UNNAMED TRIBUTARY
Outfall 130	Lat: 32.474349 Long: -85.021855	18" RCP	UNNAMED TRIBUTARY
Outfall 131	Lat: 32.474578 Long: -85.021562	18" RCP	UNNAMED TRIBUTARY
Outfall 132	Lat: 32.474551 Long: -85.021583	18" RCP	UNNAMED TRIBUTARY
Outfall 133	Lat: 32.475708 Long: -85.019699	18" RCP	UNNAMED TRIBUTARY
Outfall 134	Lat: 32.475652 Long: -85.018919	24" CMP	UNNAMED TRIBUTARY
Outfall 135	Lat: 32.473680 Long: -85.029251	24" RCP	UNNAMED TRIBUTARY

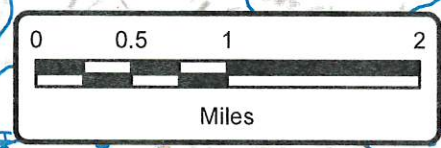
Outfall 136	Lat: 32.471830 Long: -85.033148	18" RCP	UNNAMED TRIBUTARY
Outfall 137	Lat: 32.471806 Long: -85.033098	18" RCP	UNNAMED TRIBUTARY
Outfall 138	Lat: 32.473182 Long: -85.033211	18" RCP	UNNAMED TRIBUTARY
Outfall 139	Lat: 32.505976 Long: -85.034120	18" RCP	UNNAMED TRIBUTARY
Outfall 140	Lat: 32.504709 Long: -85.034496	18" RCP	UNNAMED TRIBUTARY
Outfall 141	Lat: 32.502828 Long: -85.034726	18" RCP	UNNAMED TRIBUTARY
Outfall 142	Lat: 32.496240 Long: -85.029880	FLUME	UNNAMED TRIBUTARY
Outfall 143	Lat: 32.496188 Long: -85.029909	24" RCP	UNNAMED TRIBUTARY
Outfall 144	Lat: 32.496221 Long: -85.029904	24" RCP	UNNAMED TRIBUTARY
Outfall 145	Lat: 32.496283 Long: -85.029734	FLUME	UNNAMED TRIBUTARY
Outfall 146	Lat: 32.494506 Long: -85.032526	24" RCP	UNNAMED TRIBUTARY
Outfall 147	Lat: 32.465820 Long: -85.018912	FLUME	UNNAMED TRIBUTARY
Outfall 148	Lat: 32.499732 Long: -85.007409	12" RCP	MOON LAKE
Outfall 149	Lat: 32.499580 Long: -85.008303	12" RCP	MOON LAKE
Outfall 150	Lat: 32.499079 Long: -85.009969	24" RCP	MOON LAKE
Outfall 151	Lat: 32.498448 Long: -85.011602	24" RCP	MOON LAKE
Outfall 152	Lat: 32.498241 Long: -85.011692	36" RCP	MOON LAKE
Outfall 153	Lat: 32.498205 Long: -85.011667	36" RCP	MOON LAKE
Outfall 154	Lat: 32.498180 Long: -85.011624	12" RCP	MOON LAKE
Outfall 155	Lat: 32.497676 Long: -85.009379	24" RCP	MOON LAKE
Outfall 156	Lat: 32.497415 Long: -85.008152	24" RCP	MOON LAKE
Outfall 157	Lat: 32.497319 Long: -85.007304	15" RCP	MOON LAKE
Outfall 158	Lat: 32.497367 Long: -85.007185	24" RCP	MOON LAKE/OUTFALL
Outfall 159	Lat: 32.472849 Long: -85.031361	16" CONCRETE PIPE	UNNAMED TRIBUTARY

Appendix I – Figures



LEGEND

- Phenix City MS4 Area
- Phenix City City Limits
- Columbus, GA-AL Urbanized Area



REFERENCE:
 PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

DATE: 11/17/16
 DRAWN BY: EJK
 CHECKED BY: CCL

SCALE: 1:63,360
 PROJECT NO: 4482-16-055
 NPDES NO: ALR040019

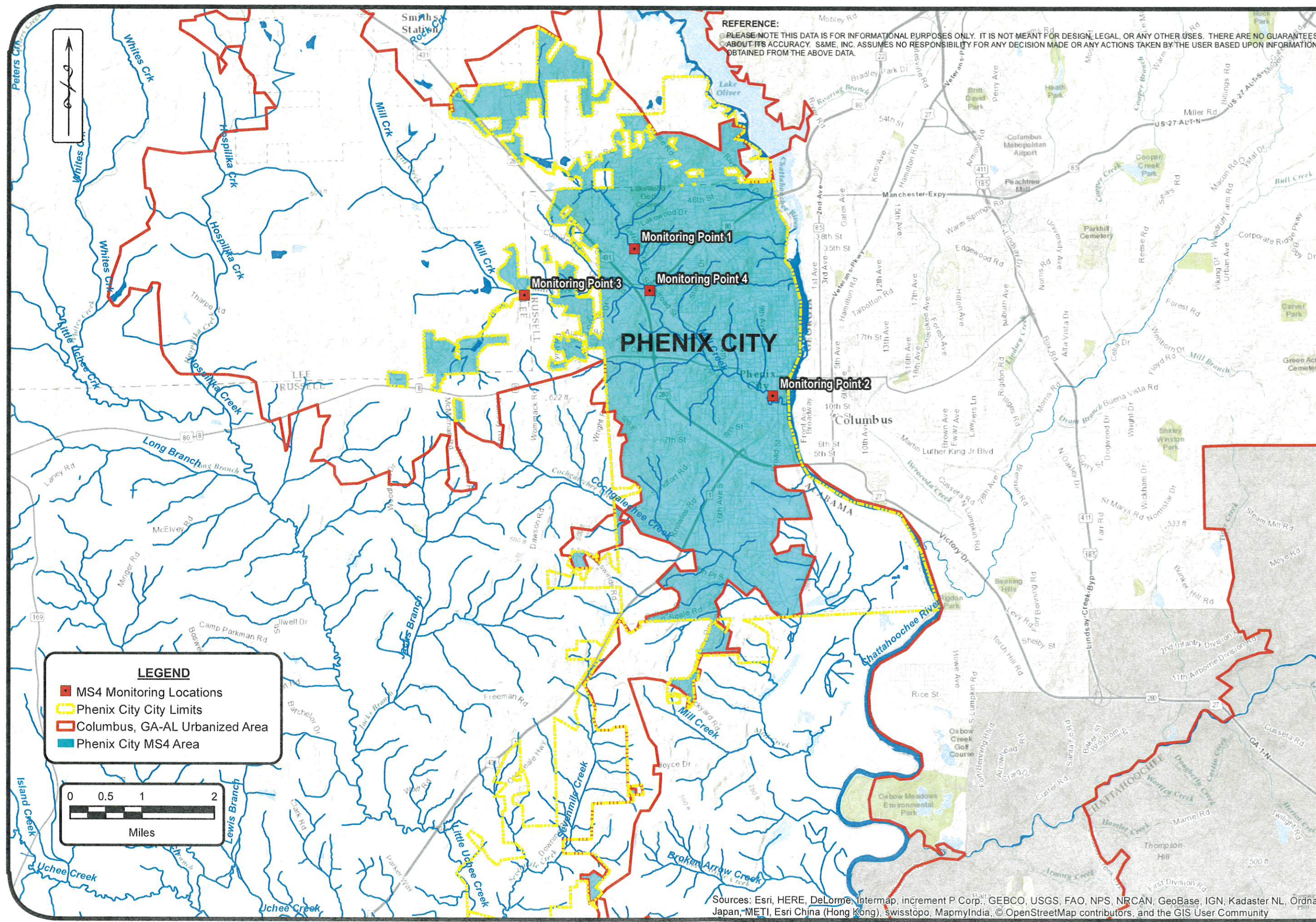


PHENIX CITY MS4
 PHENIX CITY URBANIZED AREA
 PHASE II SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM

FIGURE NO.
1

Sources: Esri, DeLorme, USGS, NPS, Sources:

REFERENCE:
PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.



DATE: 01/25/17
DRAWN BY: EJK
CHECKED BY: CCL

SCALE: 1:80,000
PROJECT NO: 4482-16-055
NPDES NO: ALR040019



**PHENIX CITY MS4
MS4 MONITORING LOCATIONS**
PHENIX CITY URBANIZED AREA
PHASE II SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM

FIGURE NO.
2

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

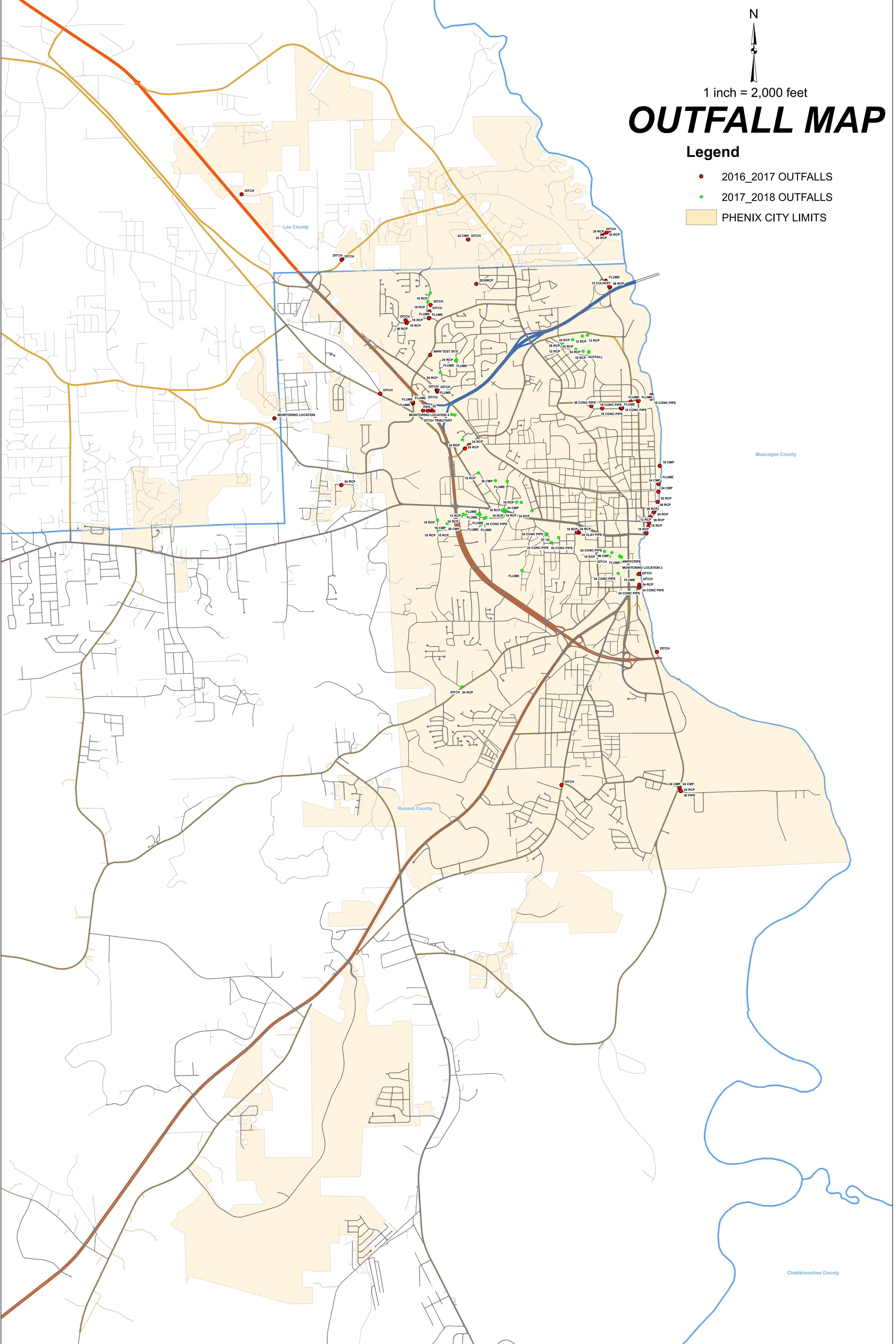


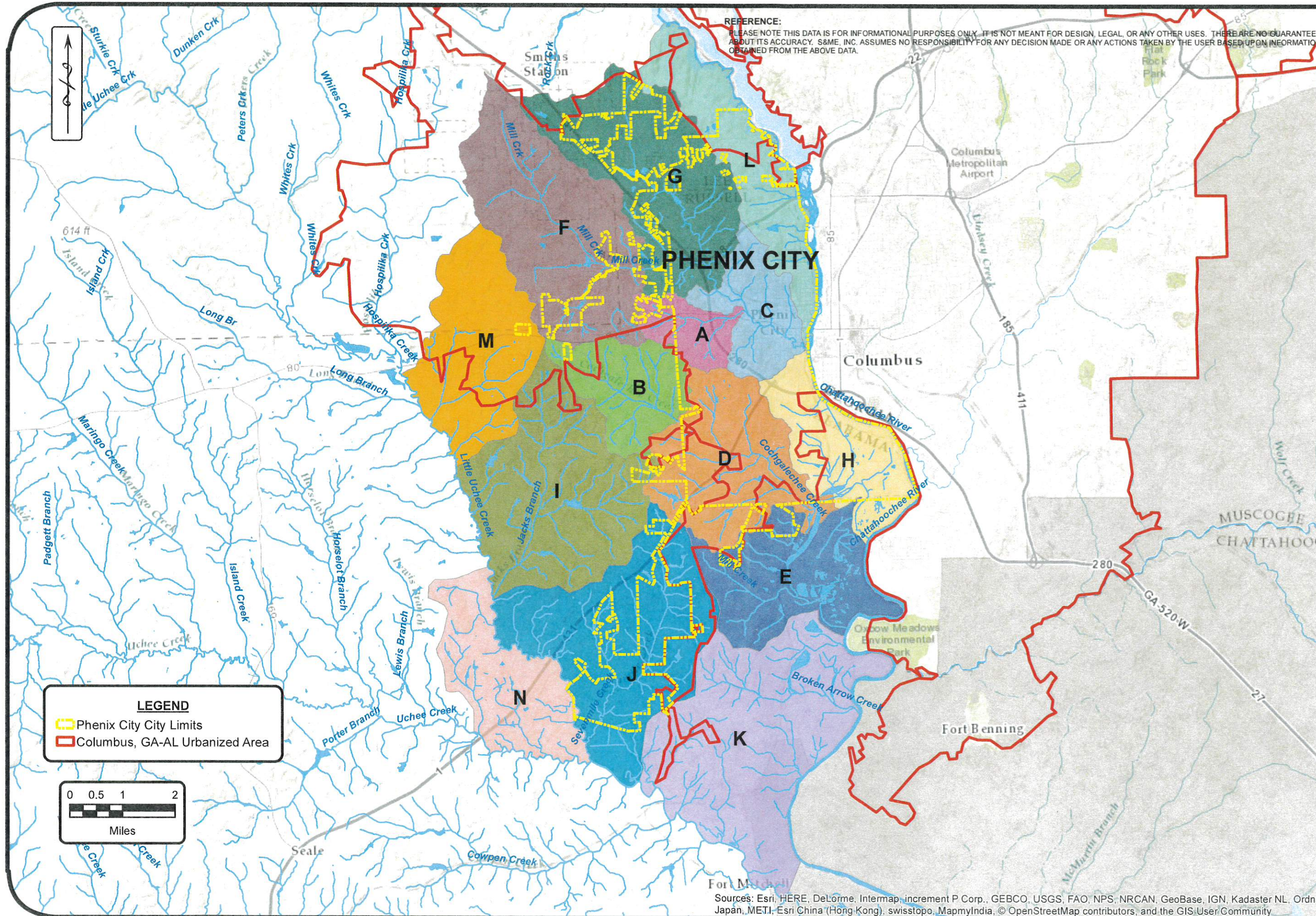
1 inch = 2,000 feet

OUTFALL MAP

Legend

- 2016_2017 OUTFALLS
- 2017_2018 OUTFALLS
- PHENIX CITY LIMITS





REFERENCE:
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SCALE: 1:80,000	DATE: 12/22/16
PROJECT NO: 4482-16-055	DRAWN BY: EJK
NPDES NO: ALR040019	CHECKED BY: CCL

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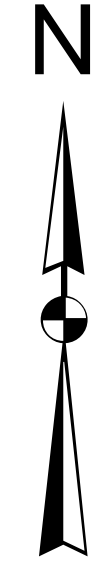
**PHENIX CITY MS4
DELINEATED DRAINAGE BASINS**

PHENIX CITY URBANIZED AREA
PHASE II SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM

FIGURE NO.
4




Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

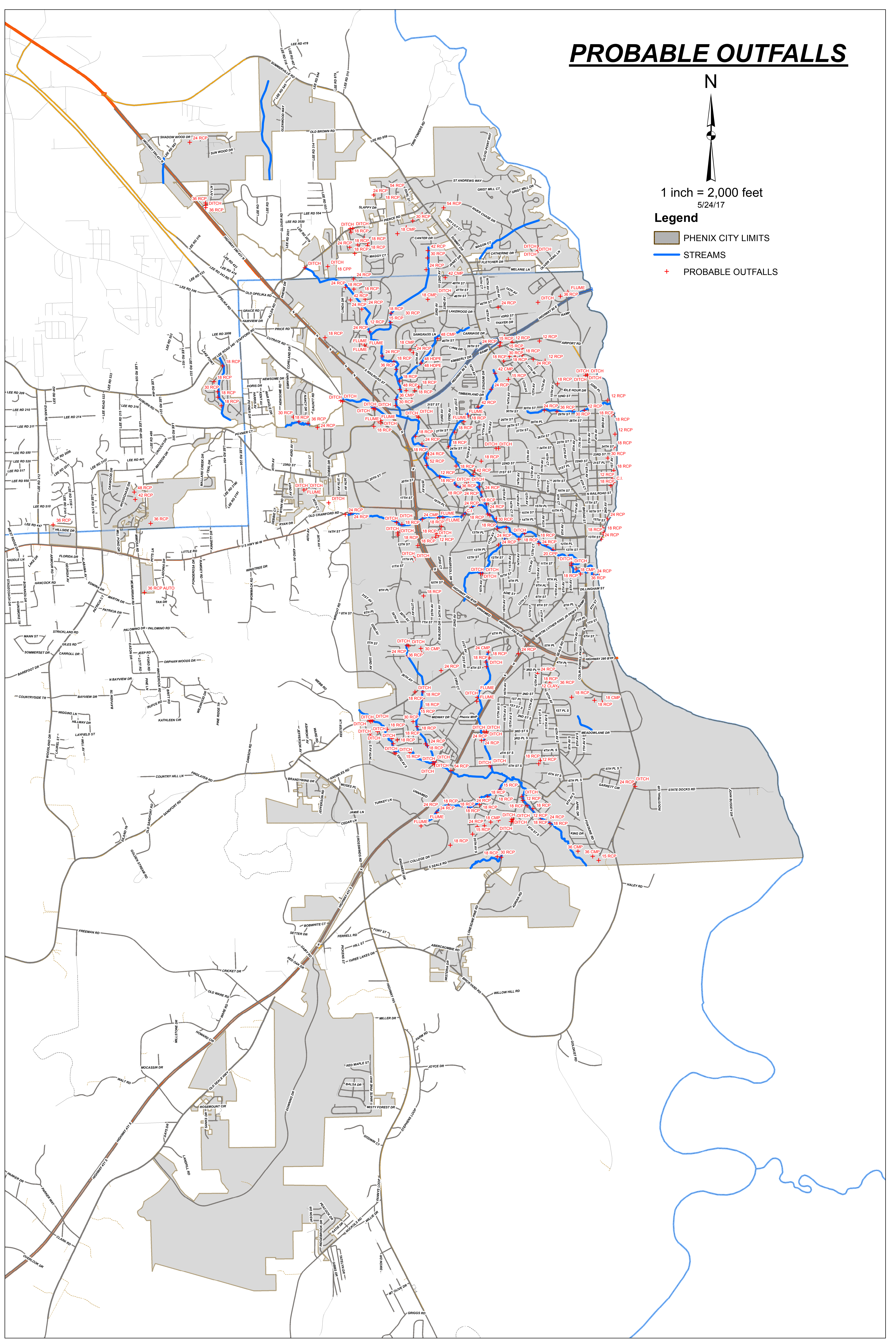
PROBABLE OUTFALLS



1 inch = 2,000 feet
5/24/17

Legend

-  PHENIX CITY LIMITS
-  STREAMS
-  PROBABLE OUTFALLS



Appendix II – Standard Operating Procedures

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-18</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Commercial Development Construction Plans

I. PURPOSE

To ensure construction plans submitted for proposed commercial developments meet the requirements of the Engineering Department.

II. POLICY

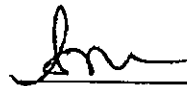
Construction Plans shall be reviewed in accordance with the following procedure:

1. Receive Construction Plans from Building Department.
2. Determine if commercial development will require an Erosion and Sediment Control Permit. Disturbed area will need to be greater than one acre. If so SOP E-40 – Erosion and Sediment Control Plan Review will need to be followed also.
3. Review overall site layout.
4. Determine all locations where the sanitary sewer will tie into existing city infrastructure. Review overall sanitary sewer plan and profile to ensure standard engineering practices have been followed.
 - 0.2 ft. drop across manhole inverts should be shown.
 - Minimum 0.5% slope is required on sanitary sewer lines.
 - Determine if drop manholes are required. Drop manhole required if elevation difference is greater than 2 ft.
 - Determine if easements have been given if required.
5. Review overall water line layout and profile to ensure standard engineering practices have been followed.
 - If subdivision is located within Phenix City Utility jurisdiction, the water line must be ductile iron.
 - Determine if minimum cover requirement of 30 inches has been met for pipes sizes 10 inches and under. Minimum cover required for pipes greater than 10 inches is 36 inches.
 - Check spacing and location of all valves and fire hydrants.
6. Review the Hydrologic/Hydraulic Study if required. This should include map of drainage area(s), hydrographs, pond reports, pipe sizing calculations, inlet spacing, gutter spread, etc.
 - Review drainage area and determine accuracy.
 - Outlet structure detail should coincide with Pond Report. Check for sizes of

orifices and weirs.

- Post Development Discharge should not be greater than PreDeveloped Discharge.
7. Determine all locations where the storm system will tie into existing city infrastructure. Review storm layout plan and profile to ensure standard engineering practices have been followed.
 - Check pipe sizes and pipe material. Confirm pipe sizes conform to Hydraulic Study.
 - Invert elevations should be shown.
 - Check inlet spacing and orientation.
 8. Determine if driveway permit is required. If so, SOP E-36 - Inspection of Turnouts/Driveways will need to be followed.
 9. Determine if any other work will be performed on right-of-way and if so, does it conform to city standards.
 10. Review grading plan to ensure standard engineering practices have been followed.
 11. Review erosion control sheet to ensure standard engineering practices have been followed. Also, refer to the Erosion and Sediment Control Policy if the subdivision is located within the city limits.
 12. Review detail sheets to ensure the details meet the standard specifications and drawings of Phenix City Engineering Department or the Alabama Department of Transportation.
 13. If corrections are needed, fax a copy of the list of items that need to be corrected to the design engineer.
 14. Send memo to the Building Department indicating approval or disapproval of the plans. If plans are disapproved, attach a copy of the fax sent to the design engineer.
 15. Maintain a copy of the memo and/or corrections in the file.

BY ORDER OF

 CITY ENGINEER

Department Head Name

Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-19</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Final Inspections for Subdivisions

I. PURPOSE

To ensure all required improvements in subdivisions have been completed and constructed in accordance with the Subdivision Regulations and approved construction plans.

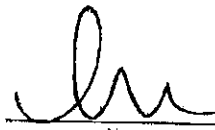
II. POLICY

Final inspections for subdivisions shall be conducted in accordance with the following procedure:

1. Contractor shall submit, in writing, a request for the City Inspector to conduct a final inspection of the subdivision once all improvements have been completed.
2. Inspector shall contact contractor and schedule final inspection. If subdivision lies within the Planning Jurisdiction, the appropriate county inspector shall also be contacted.
3. If subdivision lies within the Fire Jurisdiction, the Fire Department will need to be contacted for a final inspection.
4. Inspector shall review approved construction plans and determine if improvements have been completed. At a minimum, the following items should be inspected:
 - Sanitary sewer system
 - Water system
 - Drainage system
 - Erosion control measures
 - Streets
 - Right-of-way
5. Make a list of any items that are not constructed properly or are in need of repair.
6. If repairs are needed, a letter listing all items on the punch list will need to be sent to the following entities:
 - Contractor
 - Owner/developer
 - Utilities Department (if applicable)
 - Fire Department (if applicable)

- County (if applicable)
7. Continue to inspect subdivision until all improvements on punch list have been completed.
 8. Once all improvements have been completed and constructed properly, proceed to SOP E-12 - Final Acceptance of Subdivisions.

BY ORDER OF

 CITY ENGINEER

Department Head Name

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-40</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Erosion and Sediment Control Plan Review

I. PURPOSE

To ensure erosion and sediment control plans are reviewed in accordance with the Erosion and Sediment Control Policy.

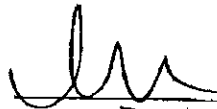
II. POLICY

Erosion and Sediment Control Plans are to be reviewed as follows:

1. Receive plan from front desk.
2. Determine if site will require approval of an Erosion and Sediment Control (ESC) Plan.
 - Land disturbance of an acre or more
 - Within City Limits
 - Site is not included in list of exclusions given in Section IV. D of The Erosion and Sediment Control Policy
3. If approval of an ESC Plan is required, the plan shall include all parts required by The Erosion and Sediment Control Policy including:
 - Fee—According to Section XIII of the above mentioned policy.
 - Copies of ADEM NPDES Application (including USGS Map as submitted to ADEM) and Permit
 - Sequence of Construction
 - Erosion and Sediment Control Measures
 - Seeding Information
 - Maintenance Information
 - Site Drainage and Grading Plan
 - Original and Final Contour Lines
 - Inspection Information
 - Other Pertinent Information
4. Determine if all requirements have been met.
5. Determine any other concerns within plans and accompanying materials.
6. Determine if there are any corrections/revisions that will need to be made to plans.
7. Review concerns with Assistant City Engineer or appropriate party.
8. Plans can be Approved or Disapproved or corrections/revisions may be required.
9. If corrections/revisions are required:
 - A fax or letter stating required corrections/revisions must be sent to the design engineer.

- If a Building Permit is required, a memo is to be sent to the Building Department stating that the plans do not meet the approval of our office with a copy of the fax or letter stating required corrections/revisions.
 - Any alternative method of processing corrections/revisions is to adhere to the Erosion and Sediment Control Policy of the City of Phenix City.
10. The review process is to continue until plans/revisions receive Approval or Disapproval.
11. Proceed to SOPE-41 – Approval of Erosion and Sediment Control Plan or SOP E-42 – Disapproval of Erosion and Sediment Control Plan.

BY ORDER OF

 CITY ENGINEER

Department Head Name

Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-41</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Approval of Erosion and Sediment Control Plans

I. PURPOSE


To ensure erosion and sediment control plans are approved in accordance with the Erosion and Sediment Control Policy.

II. POLICY

When all requirements have been met and the Engineering Department is ready to grant approval of the site specific Erosion and Sediment Control Plans, approval is to be granted in accordance with the following procedure:

1. An approval letter is to be sent to the Plan Engineer or appropriate party.
2. A Land Disturbing Permit is to be prepared.
3. If a Building Permit is required for the site:
 - The Land Disturbing Permit and a memo stating that the plans have met the approval of the Engineering Department are to be forwarded to the Building Department along with stamped plans and these items are to be issued, by the Building Department, to the owner or owner's representative at the appropriate time.
4. If a Building Permit is not required for the site:
 - The Land Disturbing Permit and stamped plans are to be sent to the design engineer or appropriate party.
5. If the approved plans are for a subdivision:
 - The Approval Letter, Land Disturbing Permit, and stamped plans are to be given to the design engineer or appropriate party along with the approved subdivision construction plans.
6. Copies are to be made of all items.
7. Copies and any other pertinent documents are to be filed.
8. Discard invalid drawings/calculations.

BY ORDER OF

 CITY ENGINEER

Department Head Name
Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-42</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Disapproval of Erosion and Sediment Control Plans

I. PURPOSE

To ensure erosion and sediment control plans are disapproved in accordance with the Erosion and Sediment Control Policy.

II. POLICY

When the Engineering Department disapproves a site specific Erosion and Sediment Control Plan, disapproval is to be given in accordance with the following procedure:

1. A disapproval letter is to be sent to the design engineer or appropriate party.
2. The City must inform the applicant, in writing, of the reason for disapproval.
3. Copies are to be made of all items.
4. Copies and any other pertinent documents are to be filed.

BY ORDER OF

 CITY ENGINEER

Department Head Name
Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-43</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Revised Erosion and Sediment Control Plan Review

I. PURPOSE

To ensure revised erosion and sediment control plans are reviewed in accordance with the Erosion and Sediment Control Policy.

II. POLICY

Revised Erosion and Sediment Control Plans are to be reviewed in accordance with the following procedure:

1. Receive plan from front desk.
2. Determine if site will require submittal of a separate fee or any other previously submitted materials.
3. Determine if all requirements have been met.
4. Determine any other concerns within plans and accompanying materials.
5. Determine if there are any corrections/revisions that will need to be made to plans.
6. Review concerns with Assistant City Engineer or appropriate party.
7. Plans can be Approved or Disapproved or corrections/revisions may be required.
8. If corrections/revisions are required:
 - A fax or letter stating required corrections/revisions must be sent to the design engineer.
 - If a Building Permit is required on site, a memo is to be sent to the Building Department stating that the plans do not meet the approval of our office with a copy of the fax or letter stating required corrections/revisions.
9. The review process is to continue until plans/revisions receive Approval or Disapproval.
10. Proceed to SOP E-41 – Approval of Erosion and Sediment Control Plan or SOP E-42 – Disapproval of Erosion and Sediment Control Plan.
11. If approval is granted, the previously issued Land Disturbing Permit and Permit Number will remain operative.

BY ORDER OF

 CITY ENGINEER

Department Head Name
Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-44</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Non-Permitted Land Disturbance

I. PURPOSE


To ensure all non-permitted land disturbances are managed in accordance with the Erosion and Sediment Control Policy.

II. POLICY

All non-permitted land disturbances shall be managed in accordance with the following procedure:

1. Site inspection is to be made if possible and safe.
2. Pictures are to be taken of areas of land disturbance.
3. Find information on property and property owner.
4. Communicate findings with Assistant City Engineer or appropriate party.
3. Determine if the site requires the approval of an ESC Plan and the issuance of a Land Disturbing Permit.
4. If the site does not require approval of an ESC Plan and issuance of Land Disturbing Permit:
 - Inspect and assess site conditions to ensure compliance with ESC Policy.
 - Contact Owner/Responsible Party with any concerns or violations of Policy.
5. If the site does require the approval of ESC Plan and issuance of Land Disturbing Permit:
 - The Owner/Responsible Party is to be notified.
 - No further work, except work on erosion and sediment control measures, is to be done without the approval of an ESC Plan and issuance of a Land Disturbing Permit.

BY ORDER OF

 CITY ENGINEER

Department Head Name

Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>B-45</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Notice of Violation per Erosion and Sediment Control Policy.

I. PURPOSE

To provide guidance in issuing a Notice of Violation of the above mentioned policy and furthermore to ensure compliance with the provisions of the ESC Policy of the City of Phenix City.

II. POLICY

When deemed necessary and appropriate by the City Engineer, a Notice of Violation of the ESC Policy is to be issued as follows:

1. The developer or subsequent landowner is to be notified, in writing, of the deficiencies to be corrected.
2. The letter is to be delivered via hand delivery if possible.
3. The letter is to specify a time frame in which corrections are to be made.
 - Deficiencies noted must be corrected within 72 hours.
 - If deficiencies are in a highly sensitive area, as deemed by the City Engineer, the corrective action must occur within 24 hours of receipt of the notification.
4. If the corrective action does not occur within the specified time, a stop work order in accordance with the ESC Policy of the City of Phenix City should be issued.
5. Any further information concerning stop work orders, citations, and the reestablishment of measures is referenced in the ESC Policy.

BY ORDER OF

 CITY ENGINEER

Department Head Name
Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-46</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Inspection of Erosion and Sediment Control Measures

I. PURPOSE

To ensure compliance with the Erosion and Sediment Control Policy and furthermore safeguard persons, protect property, and prevent damage to the environment in Phenix City, Alabama.


II. POLICY

Erosion and sediment control measures should be inspected in accordance with the following procedure:

1. All measures are to be installed and maintained according to the Alabama Handbook For Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas, Latest Edition.
2. All measures are to be installed and maintained in a manner as to ensure compliance with the Erosion and Sediment Control Policy and the approved ESC Plan.
3. Measures are to be installed and maintained in such a manner as to ensure that sediment does not leave the site on which the land disturbance has occurred or cause adverse affect on other properties.
4. Site inspections are to be made upon installation of initial Best Management Practices (BMPs), following a rainfall, and as often as necessary to ensure compliance with the Erosion and Sediment Control Policy.
5. Site inspections are to be made throughout construction and until stabilization of the disturbed area has occurred.
6. Erosion and Sediment Control Inspection Reports are to be filled out following site inspections and as often as necessary to document the status and progress of erosion and sediment control on site.
7. Erosion and Sediment Control Inspection Reports are to be initialed by the person performing site inspection.
8. Erosion and Sediment Control Inspection Reports should include any pertinent information to aid in the assurance that site remains in compliance with above mentioned policy.
9. Contact the appropriate party (Owner, Developer, Engineer, Contractor, Etc.) to address concerns/deficiencies.
10. When deemed necessary and appropriate by the City Engineer, a written notice of violation is to be delivered to the developer or subsequent landowner (via hand delivery if possible) noting deficiencies and specifying a time frame in which deficiencies are to

be corrected. This notice of violation and the actions following (including stop-work orders and citations) are further described in Sections VIII and IX of the Erosion and Sediment Control Policy. See SOPE-45—Notice of Violation per Erosion and Sediment Control Policy.

BY ORDER OF

 CITY ENGINEER

Department Head Name

Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-47</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Inspection and Management of Existing Disturbed Sites Contributing to Sediment Runoff

I. PURPOSE


To ensure compliance with the Erosion and Sediment Control Policy and furthermore provide guidance in dealing with existing disturbed sites contributing to sediment runoff.

II. POLICY

Upon the discovery of an existing disturbed site contributing to sediment runoff

1. Inspect and assess site conditions to ensure compliance with ESC Policy, if possible.
2. Pictures are to be taken of areas of land disturbance.
3. Find information on property and property owner.
4. Communicate findings with Assistant City Engineer or appropriate party.
5. Contact Owner/Responsible Party with any concerns or violations of Policy.
6. When deemed necessary and appropriate by the City Engineer, a written notice of violation is to be delivered to the developer or subsequent landowner (via hand delivery if possible) noting deficiencies and specifying a time frame in which deficiencies are to be corrected. This notice of violation and the actions following (including stop-work orders and citations) are further described in Sections VIII and IX of the Erosion and Sediment Control Policy of the City of Phenix City. See SOP E-45 - Notice of Violation per Erosion and Sediment Control Policy.

BY ORDER OF


CITY ENGINEER
 Department Head Name
 Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-48</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Annual Inspection of Storm Water Detention Systems

I. PURPOSE


To ensure that the site storm water detention system is functioning properly and that the post development runoff rate of permitted site shall not exceed the predevelopment storm water runoff rate for an equivalent event. (Except where alternative measures have been approved by the City Engineer)

II. POLICY

Annual inspection should commence as follows:

1. Storm water detention system is to be inspected to assure that it is functioning according the approved plans.
2. Inspection is to take place annually following the stabilization of site.
3. Any concerns/deficiencies are to be relayed to the responsible party.

BY ORDER OF

 CITY ENGINEER

Department Head Name

Title

Effective	<u>MAY 1, 2008</u>	SOP	<u>E-50</u>
Rescinds	<u>ALL PRIOR</u>	Amends	<u>N/A</u>

SUBJECT

Commercial/Industrial Development Civil Construction Plans Review Process

I. PURPOSE

To ensure civil construction plans submitted for proposed commercial/industrial developments meet the requirements of the City of Phenix City.

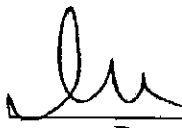
II. POLICY

Civil construction plans shall be reviewed in accordance with the following procedure:

1. Developer shall submit commercial/industrial development civil construction plans to the Engineering Department.
2. Engineering Department shall send a set of civil construction plans as required below to each department:
 - Building Department
 - Fire Department
 - Utilities Department
3. Each Department shall review the civil construction plans in accordance with policies and procedures as set forth in each Department
4. Any comments regarding the plans shall be submitted to the Engineering Department within one (1) week of plan submittal. If no corrections need to be made, each department shall submit an approval memo to Engineering Department stating the plans are satisfactory.
5. Engineering will compile one list of comments to be sent back to the design engineer if corrections need to be made. Once all comments have been compiled, the Engineering, Building, Fire, and Utilities Departments shall meet to discuss all review comments prior to issuance to the design engineer.
6. If civil plans are resubmitted due to any changes, the above steps shall be repeated until all departments have a satisfactory review of the plans.
6. Once the Engineering Department has received approval memos from all departments, Engineering will collect the construction plans to be stamped approved.
7. Design Engineer will be notified to submit additional sets of plans for approval stamp.

8. **Stamped Approved plans will be sent back to Bulding, Fire and Utilities Departments.**
9. **Any revisions to the approved construction plans must be submitted to the Engineering Department and will follow the above review process.**

BY ORDER OF

 CITY ENGINEER

Department Head Name

Title

Effective	<u>March 13, 2017</u>	SOP	<u>M-01</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Fire Station No. 1

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and storm water pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Conduct inspections of equipment and materials being handled and store properly.**
- 5. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).**
- 6. Keep all chemical containers off of the floor and ensure they are closed with a tight fitting lid and labeled correctly.**
- 7. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 8. Do not pressure-wash or hose-off surfaces with soap or chemicals unless wastewater is collected. Do not let wastewater enter the storm drainage system.**
- 9. If only cleaning surfaces of ambient dust (with water only), the wastewater can be drained to nearby landscaped or vegetated area or allowed to pool on-site and evaporate.**
- 10. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

- 1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.**
- 2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.**
- 3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.**
- 4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly.**
- 5. When watering landscaped areas after fertilizer application, take care not to over-water or allow water to runoff into the storm drainage system.**
- 6. Do not apply landscape chemicals to frozen ground.**
- 7. Recycle or dispose of all used or excess chemicals properly and promptly.**
- 8. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.**
- 9. Keep chemical application equipment clean and free of residual chemicals.**
- 10. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.**
- 11. Keep fertilizers covered and dry to reduce water damage.**
- 12. Used and unused containers should be closed with a tight fitting lid and labeled.**
- 13. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.**
- 14. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.**
- 15. Notify the Supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements.**

V. FUELING AND FUEL SPILL CLEAN UP:

- 1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).**
- 2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.**
- 3. Clean up spills promptly and dispose of properly.**
- 4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.**
- 5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.**
- 6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.**
- 7. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.**


VI. BUILDING AND STRUCTURES:

1. Remove trash and debris around buildings and grounds daily or as needed.
2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.
3. Clean up paint or other spills promptly.
4. Keep maintenance equipment clean.
5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.

VII. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicle or equipment outside the designated wash area.
8. When washing vehicles and equipment, keep a drain sock handy and close by as it will be used frequently. Clean or replace drain socks when needed.
9. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Effective	<u>March 13, 2017</u>	SOP	<u>M-02</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Fire Station No. 3

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and storm water pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Conduct inspections of equipment and materials being handled and store properly.**
- 5. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).**
- 6. Keep all chemical containers off of the floor and ensure they are closed with a tight fitting lid and labeled correctly.**
- 7. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 8. Do not pressure-wash or hose-off surfaces with soap or chemicals unless wastewater is collected. Do not let wastewater enter the storm drainage system.**
- 9. If only cleaning surfaces of ambient dust (with water only), the wastewater can be drained to nearby landscaped or vegetated area or allowed to pool on-site and evaporate.**
- 10. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

- 1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.**
- 2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.**
- 3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.**
- 4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly.**
- 5. When watering landscaped areas after fertilizer application, take care not to over-water or allow water to runoff into the storm drainage system.**
- 6. Do not apply landscape chemicals to frozen ground.**
- 7. Recycle or dispose of all used or excess chemicals properly and promptly.**
- 8. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.**
- 9. Keep chemical application equipment clean and free of residual chemicals.**
- 10. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.**
- 11. Keep fertilizers covered and dry to reduce water damage.**
- 12. Used and unused containers should be closed with a tight fitting lid and labeled.**
- 13. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.**
- 14. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.**
- 15. Notify the Supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements.**

V. FUELING AND FUEL SPILL CLEAN UP:

- 1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).**
- 2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.**
- 3. Clean up spills promptly and dispose of properly.**
- 4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.**
- 5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.**
- 6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.**
- 7. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.**

VI. BUILDING AND STRUCTURES:

1. Remove trash and debris around buildings and grounds daily or as needed.
2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.
3. Clean up paint or other spills promptly.
4. Keep maintenance equipment clean.
5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.

VII. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicle or equipment outside the designated wash area.
8. When washing vehicles and equipment, keep a drain sock handy and close by as it will be used frequently. Clean or replace drain socks when needed.
9. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Effective	<u>March 13, 2017</u>	SOP	<u>M-03</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Fire Station No. 4

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and storm water pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Conduct inspections of equipment and materials being handled and store properly.**
- 5. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).**
- 6. Keep all chemical containers off of the floor and ensure they are closed with a tight fitting lid and labeled correctly.**
- 7. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 8. Do not pressure-wash or hose-off surfaces with soap or chemicals unless wastewater is collected. Do not let wastewater enter the storm drainage system.**
- 9. If only cleaning surfaces of ambient dust (with water only), the wastewater can be drained to nearby landscaped or vegetated area or allowed to pool on-site and evaporate.**
- 10. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

- 1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.**
- 2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.**
- 3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.**
- 4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly.**
- 5. When watering landscaped areas after fertilizer application, take care not to over-water or allow water to runoff into the storm drainage system.**
- 6. Do not apply landscape chemicals to frozen ground.**
- 7. Recycle or dispose of all used or excess chemicals properly and promptly.**
- 8. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.**
- 9. Keep chemical application equipment clean and free of residual chemicals.**
- 10. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.**
- 11. Keep fertilizers covered and dry to reduce water damage.**
- 12. Used and unused containers should be closed with a tight fitting lid and labeled.**
- 13. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.**
- 14. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.**
- 15. Notify the Supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements.**

V. FUELING AND FUEL SPILL CLEAN UP:

- 1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).**
- 2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.**
- 3. Clean up spills promptly and dispose of properly.**
- 4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.**
- 5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.**
- 6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.**
- 7. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.**

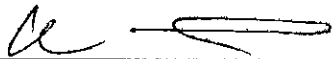
VI. BUILDING AND STRUCTURES:

1. Remove trash and debris around buildings and grounds daily or as needed.
2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.
3. Clean up paint or other spills promptly.
4. Keep maintenance equipment clean.
5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.

VII. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicle or equipment outside the designated wash area.
8. When washing vehicles and equipment, keep a drain sock handy and close by as it will be used frequently. Clean or replace drain socks when needed.
9. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Effective March 13, 2017

SOP M-04

Rescinds All Prior

Amends N/A

SUBJECT:

Parks and Recreation

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Superintendent or Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Conduct inspections of equipment and materials being handled and store properly.**
- 5. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).**
- 6. Keep all chemical containers off of the floor and ensure they are closed with a tight fitting lid and labeled correctly.**
- 7. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 8. Do not pressure-wash or hose-off surfaces with soap or chemicals unless wastewater is collected. Do not let wastewater enter the storm drainage system.**
- 9. If only cleaning surfaces of ambient dust (with water only), the wastewater can be drained to nearby landscaped or vegetated area or allowed to pool on-site and evaporate.**
- 10. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

- 1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.**
- 2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.**
- 3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.**
- 4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly and do not delay in the clean up of spills.**
- 5. When watering landscaped areas after fertilizer application, take care not to over-water or allow water to runoff into the storm drainage system.**
- 6. Do not apply landscape chemicals to frozen ground.**
- 7. Recycle or dispose of all used or excess chemicals properly and promptly.**
- 8. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.**
- 9. Keep chemical application equipment clean and free of residual chemicals.**
- 10. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.**
- 11. Keep fertilizers covered and dry to reduce water damage.**
- 12. Used and unused containers should be closed with a tight fitting lid and labeled.**
- 13. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.**
- 14. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.**
- 15. Notify the Supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements.**

V. FUELING AND FUEL SPILL CLEAN UP:

- 1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).**
- 2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.**
- 3. Clean up spills promptly and dispose of properly.**
- 4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.**
- 5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.**
- 6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.**
- 7. Inspect fueling equipment for cracks, leaks, corrosion or other failures. Parks and Recreation is responsible for inspecting the fuel pump area daily.**

8. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.

VI. IRRIGATION SYSTEMS:

1. Set sprinklers to water at rates less than the infiltration rate of the soil and water evenly over the vegetated area to minimize the amount of water falling on impervious surfaces.
2. Automatic timers should be used on all irrigation equipment to minimize run-off and over irrigation. Monitor soil moisture content and adjust timer settings appropriately.
3. Replace or repair broken or leaking sprinkler heads as soon as possible.
4. Report any irrigation problems promptly to the Parks and Recreation Director or Maintenance Superintendent.
5. If possible, dispose of organic wastes by composting. If composting is not possible, dispose of organic wastes at an approved disposal facility.
6. Control soil erosion by seeding, sod, mats, mulching, terracing or other effective methods. Use mulch or other erosion control methods to prevent erosion of exposed soils and flowerbeds.
7. Do not apply bark or mulch on top of plastic sheeting unless the area is enclosed by a barrier-like lawn edging away from a storm drain inlets.
8. If possible, design new or re-landscaped areas using Low Impact Development (LID) techniques to the maximum extent possible. Use hardy plant materials appropriate to the climate.

VII. BUILDING AND STRUCTURES:

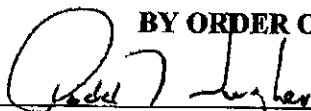
1. Remove trash and debris around buildings and grounds daily or as needed.
2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.
3. Clean up paint or other spills promptly.
4. Keep maintenance equipment clean and free of residual chemicals.
5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.

VIII. VEHICLE, GOLF CART, AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles, golf carts and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles, golf carts and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles, golf carts or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles, golf carts and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.

7. Do not wash or hose down any vehicles, golf carts or equipment outside of the designated wash area.
8. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Effective	<u>March 13, 2017</u>	SOP	<u>M-05</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Lakewood Golf Course

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Superintendent or Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Conduct inspections of equipment and materials being handled and store properly.**
- 5. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).**
- 6. Keep all chemical containers off of the floor and ensure they are closed with a tight fitting lid and labeled correctly.**
- 7. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 8. Do not pressure-wash or hose-off surfaces with soap or chemicals unless wastewater is collected. Do not let wastewater enter the storm drainage system.**
- 9. If only cleaning surfaces of ambient dust (with water only), the wastewater can be drained to nearby landscaped or vegetated area or allowed to pool on-site and evaporate.**
- 10. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

- 1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.**
- 2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.**
- 3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.**
- 4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly and do not delay in the clean up of spills.**
- 5. When watering landscaped areas after fertilizer application, take care not to over-water or allow water to runoff into the storm drainage system.**
- 6. Do not apply landscape chemicals to frozen ground.**
- 7. Recycle or dispose of all used or excess chemicals properly and promptly.**
- 8. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.**
- 9. Keep chemical application equipment clean and free of residual chemicals.**
- 10. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.**
- 11. Keep fertilizers covered and dry to reduce water damage.**
- 12. Used and unused containers should be closed with a tight fitting lid and labeled.**
- 13. Handle, use, transfer, store, or re-package all chemicals under a covered and well ventilated area.**
- 14. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.**
- 15. Notify the Supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements.**

V. FUELING AND FUEL SPILL CLEAN UP:

- 1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).**
- 2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.**
- 3. Clean up spills promptly and dispose of properly.**
- 4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.**
- 5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.**
- 6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.**
- 7. Inspect fueling equipment for cracks, leaks, corrosion or other failures. Parks and Recreation is responsible for inspecting the fuel pump area daily.**

8. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.

VI. IRRIGATION SYSTEMS:

1. Set sprinklers to water at rates less than the infiltration rate of the soil and water evenly over the vegetated area to minimize the amount of water falling on impervious surfaces.
2. Automatic timers should be used on all irrigation equipment to minimize run-off and over irrigation. Monitor soil moisture content and adjust timer settings appropriately.
3. Replace or repair broken or leaking sprinkler heads as soon as possible.
4. Report any irrigation problems promptly to the Parks and Recreation Director or Maintenance Superintendent.
5. If possible, dispose of organic wastes by composting. If composting is not possible, dispose of organic wastes at an approved disposal facility.
6. Control soil erosion by seeding, sod, mats, mulching, terracing or other effective methods. Use mulch or other erosion control methods to prevent erosion of exposed soils and flowerbeds.
7. Do not apply bark or mulch on top of plastic sheeting unless the area is enclosed by a barrier-like lawn edging away from a storm drain inlets.
8. If possible, design new or re-landscaped areas using Low Impact Development (LID) techniques to the maximum extent possible. Use hardy plant materials appropriate to the climate.

VII. BUILDING AND STRUCTURES:

1. Remove trash and debris around buildings and grounds daily or as needed.
2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.
3. Clean up paint or other spills promptly.
4. Keep maintenance equipment clean and free of residual chemicals.
5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.
6. When repairing or constructing buildings, paved parking areas, driveways or other structures, protect any storm drain inlets or ditches that are within the work area.

VIII. VEHICLE, GOLF CART, AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles, golf carts and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles, golf carts and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles, golf carts or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.

6. Keep clutter around stored vehicles, golf carts and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicles, golf carts or equipment outside the designated wash area.
8. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Effective March 13, 2017

SOP B-42 (M-06)

Rescinds All Prior

Amends N/A

SUBJECT: STORM WATER POLLUTION PRODEDURES

Public Safety

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

1. Patrol Supervisors are responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists will be turned in to the Engineering Department for record keeping.
2. Keep all indoor and outdoor work areas neat and well organized.
3. Sweep and pick up all trash and debris daily or as needed.
4. Do not pressure-wash or hose-off surfaces with soap or chemicals unless wastewater is collected. Do not let wastewater enter the storm drainage system.
5. If only cleaning surfaces of ambient dust (with water only), the wastewater can be drained to nearby landscaped / vegetated area or allowed to pool on-site and evaporate.

IV. FUELING AND FUEL SPILL CLEAN UP:

1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).

2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.
3. Clean up spills promptly and dispose of properly.
4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.
5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.
6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.

V. BUILDING AND STRUCTURES:

1. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.

VI. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Use only biodegradable, phosphate free soaps when washing vehicles and equipment.

BY ORDER OF



Chief of Police

Effective	<u>March 13, 2017</u>	SOP	<u>M-07</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Public Works

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Conduct inspections of equipment and materials being handled and store properly.**
- 5. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).**
- 6. Keep all chemical containers off of the floor and ensure they are closed with a tight fitting lid and labeled correctly.**
- 7. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 8. Do not pressure-wash or hose-off surfaces with soap or chemicals unless wastewater is collected. Do not let wastewater enter the storm drainage system.**
- 9. If only cleaning surfaces of ambient dust (with water only), the wastewater can be drained to nearby landscaped or vegetated area or allowed to pool on-site and evaporate.**
- 10. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. BUILDING AND STRUCTURES:

- 1. Remove trash and debris around buildings and grounds daily or as needed.**
- 2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.**
- 3. Clean up paint or other spills promptly.**
- 4. Keep maintenance equipment clean.**
- 5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.**
- 6. When repairing or constructing buildings, paved parking areas, driveways or other structures, protect any storm drain inlets or ditches that are within the work area.**
- 7. Never transfer, pour or dispose of maintenance materials, chemicals, or paint outdoors in parking lots, near or in storm drains, drainage ditches, or any other location where they can runoff into the storm drainage system.**
- 8. Do not allow maintenance wash water, chemicals, paint, or any other maintenance residue to enter the storm drainage system.**
- 9. Do not hose down debris collected from sidewalk cleaning into the storm drainage system. Use dry sweeping methods and dispose of properly.**

V. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

- 1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.**
- 2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.**
- 3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.**
- 4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly and do not delay in the clean up of spills.**
- 5. When watering landscaped areas after fertilizer application, take care not to over-water or allow water to runoff into the storm drainage system.**
- 6. Do not apply landscape chemicals to frozen ground.**
- 7. Recycle or dispose of all used or excess chemicals properly and promptly.**
- 8. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.**
- 9. Keep chemical application equipment clean and free of residual chemicals.**
- 10. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.**
- 11. Keep fertilizers covered and dry to reduce water damage.**
- 12. Used and unused containers should be closed with a tight fitting lid and labeled.**
- 13. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.**
- 14. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.**
- 15. Notify the Supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements.**

VI. FUELING AND FUEL SPILL CLEAN UP:

- 1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).**
- 2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.**
- 3. Clean up spills promptly and dispose of properly.**
- 4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.**
- 5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.**
- 6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.**
- 7. Inspect fueling equipment for cracks, leaks, corrosion or other failures. Public Works is responsible for inspecting the fuel pump area daily.**
- 8. The containment sumps, spill buckets, lids and valves for the underground gas and diesel tanks are inspected annually.**
- 9. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.**

VII. VEHICLE AND EQUIPMENT STORAGE/MAINTENANCE:

- 1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.**
- 2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.**
- 3. Vehicles or equipment with KNOWN leaks should be repaired promptly.**
- 4. Clean up spills promptly.**
- 5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.**
- 6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.**
- 7. Do not wash or hose down any vehicle or equipment outside of the designated wash area.**
- 8. When washing vehicles and equipment, keep a drain sock handy and close by as it will be used frequently. Clean or replace drain socks when needed.**
- 9. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.**

VIII. FLEET AND WASTE DISPOSAL:

- 1. Conduct daily inspections to ensure equipment and materials are being handled, disposed of and stored correctly.**
- 2. Keep all work areas neat and well organized. Sweep up trash and debris daily or as needed.**
- 3. Recycle all oil, filters, containers, and wastes properly and promptly. When it is not possible to recycle, dispose of properly to ensure that contact with the storm drainage system is minimized.**
- 4. Clean all parts indoors using appropriate cleaning methods.**
- 5. Do not hose down work area into the storm drainage system. Use dry sweeping methods if possible.**
- 6. Store chemicals inside a ventilated storage area and store items on shelves away from doorways and floor drains.**
- 7. Refer to the manufacturer's recommendations for application and storage of chemicals or wastes in the event of a spill.**
- 8. Handle chemicals and petroleum products with care to avoid spills.**
- 9. Clearly label drip pans for the fluids they will contain.**
- 10. Leaking vehicles, lawn mowers and equipment should be repaired as soon as possible.**
- 11. Designate areas for parked vehicles and equipment to be repaired. Check exterior vehicles and equipment areas for leaks, spills, drips, or excess dirt on a daily basis.**
- 12. Contain leaking fluids and tag the vehicle to alert drivers that the vehicle is non-operational.**
- 13. Transfer fluids from drip pans to the appropriate waste containers immediately and do not mix waste oil, fuel, antifreeze or chlorinated solvents as this can be hazardous.**
- 14. Keep lids on dumpsters closed when not in use.**
- 15. Keep a current map of storm drain locations of the Public Works area.**

IX. ASPHALT REPAIR:

- 1. Cover inlets and manholes with protection during application of seal coats and tack coats. Conduct operations during dry weather.**
- 2. Do not apply seal coat or tack coat when rain is predicted. Limit paving applications in wet weather.**
- 3. Do not allow any base materials or residual asphalt to enter the storm drainage system.**
- 4. Do not pre-heat, transfer or load bituminous materials near drain inlets or waterways.**
- 5. Place drip pans, absorbent materials, or plastic under equipment when not in use to catch and contain drips and leaks to prevent soil contamination and runoff.**
- 6. Monitor all asphalt equipment closely for leaks. Use a drip pan as needed.**
- 7. Do not repair asphalt patching equipment on a roadside surface. Transport to the maintenance shop for repairs.**
- 8. Wash or hose down the patching equipment in the designated wash area to avoid run off into the storm drainage system.**

X. STORM DRAIN/CURB INLET CLEANING:

- 1. Conduct regular stormwater drainage system maintenance or as needed based on identified sediment and debris buildup.**
- 2. Inspect storm drain conveyances frequently. Note and inform the Supervisor of any conveyance failures that need repair or replacement.**
- 3. Report any suspected illegal connections or other waste dumping activities into the storm drainage system.**
- 4. Discharge Vac Truck wastes at the Waste Water Treatment Plant as soon as possible.**
- 5. Monitor parked Vac Trucks closely for leaks. Use a drip pan as needed and repair promptly.**
- 6. Be observant of contaminated sediments such as oil sheen, unusual discoloration of sediment, and floating wastes. It may require specific disposal requirements. Report to Supervisor as soon as possible.**
- 7. Do not conduct Vac Truck flushing activities when a heavy rain is in forecast.**
- 8. Do not transfer or dispose of collected sediments near storm drains or drainage ditches.**
- 9. Do not wash or hose down the Vac truck except where the wash water will only enter an approved discharge point (i.e. sanitary sewer, or designated cleanout area like the Waste Water Treatment Plant)**
- 10. Do not discharge any contaminated stormwater from inlets, culverts or other conveyances.**
- 11. Do not store Vac Truck wastes in areas where the debris may be returned back to the storm drainage system with the next rainfall. Transport waste for disposal as soon as possible.**

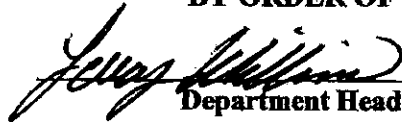
XI. RIGHT OF WAY MAINTENANCE:

- 1. Conduct routine ROW maintenance per schedule, or on an as-needed basis.**
- 2. Report bare areas within the ROW void of vegetation that may result in sediment being transported off site. Stabilize void areas as soon as possible.**
- 3. Remove trash and debris from the ROW and surrounding areas and dispose of properly prior to mowing activities.**
- 4. After mowing, pulling and trimming weeds or brush. Dispose of debris properly. Collect grass clippings and all other clippings, trimmings and wastes and take offsite for disposal or dispose in trash on site.**
- 5. Notify the Supervisor of any hazardous conditions or materials found during the performance of maintenance activities.**
- 6. Do not clean equipment or conduct maintenance on equipment within the ROW, storm drainage system or other stormwater conveyances.**
- 7. Do not apply landscaping chemicals in areas where the residue could pollute the storm drainage systems or detention ponds.**
- 8. Do not use herbicides for weed control within the ROW areas or in the median unless instructed to by the Supervisor. Use only approved chemicals, in approved amounts, and never when a heavy rain is forecasted.**
- 9. Do not attempt to clean up any unidentified or possibly hazardous materials found within the median or ROW areas during maintenance. Notify the Supervisor immediately upon discovery of hazardous materials.**

XII. STREETS, SWEEPING, AND MAINTENANCE:

1. Operate all sweeper equipment according to the manufacturer's settings and standards.
2. Perform regular maintenance of sweepers per schedule or as needed.
3. Make note of any streets that have consistently higher content of debris or sediments. These streets may require more frequent sweeping.
4. Make sure that sweeper debris is disposed of properly, away from the storm drainage system.
5. Do not ignore any leaks or drips from the street sweeper. Use a drip pan as needed.
6. In the event of snow or ice on roads and bridges, limit sand or salt to minimize entry into the storm drainage system.
7. Coordinate all snow and ice placement activities to coincide with a follow-up of street sweeping if large amounts of sediment remain after melting.
8. Washing of vehicles and plows should only take place at a designated wash area to trap grease, oils, sediment and salt residue.

BY ORDER OF


Department Head

Effective	<u>March 13, 2017</u>	SOP	<u>M-08</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Utility Department

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.
2. Keep all indoor and outdoor work areas neat and well organized.
3. Sweep and pick up all trash and debris daily or as needed.
4. Conduct inspections of equipment and materials being handled and store properly.
5. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).
6. Keep all chemical containers off of the floor and ensure they are closed with a tight fitting lid and labeled correctly.

IV. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.
2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.
3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.

4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly.
5. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.
6. Keep chemical application equipment clean and free of residual chemicals.
7. Used and unused containers should be closed with a tight fitting lid and labeled.
8. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.
9. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.
10. Notify the supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements to handle properly.

V. FUELING AND FUEL SPILL CLEAN UP:

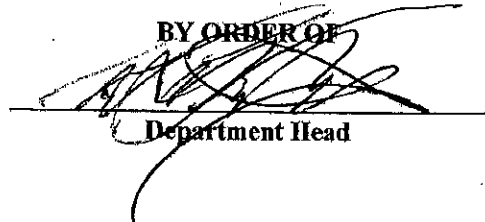
1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).
2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.
3. Clean up spills promptly and dispose of properly.
4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.
5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.
6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.
7. When fueling small equipment in the field like demo saws, jack hammers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.

VI. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicle or equipment outside the designated wash area.
8. Use only biodegradable, phosphate free soaps when washing vehicles and equipment.

9. Monitor all asphalt cutting equipment closely for leaks. Use a drip pan as needed.
10. Do not repair asphalt cutting equipment on a roadside surface. Transport to the maintenance shop for repairs.

BY ORDER OF

A large, stylized handwritten signature in black ink, written over a horizontal line. The signature is somewhat illegible but appears to be a name with a surname.

Department Head

Effective	<u>March 13, 2017</u>	SOP	<u>M-09</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Waste Water Treatment Plant

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 5. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. BUILDING AND STRUCTURES:

- 1. Remove trash and debris around buildings and grounds daily or as needed.**
- 2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.**
- 3. Clean up paint or other spills promptly.**
- 4. Keep maintenance equipment clean and free of residual chemicals.**
- 5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.**

V. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

1. Follow compliance recommendations as required by ADEM NPDES Permit No. AL0022209 when storing, handling, mixing, recycling and disposing of liquid and dry chemicals and empty containers properly.
2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.
3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.
4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly.
5. Recycle or dispose of all used or excess chemicals properly and promptly.
6. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.
7. Keep chemical application equipment clean and free of residual chemicals.
8. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.
9. Used and unused containers should be closed with a tight fitting lid and labeled.
10. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.
11. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.
12. Notify the supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements by ADEM to handle properly.

VI. UNDERGROUND STORAGE TANK MAINTENANCE:

1. In case of a major leak or a spill at the Waste Water Treatment Plant, follow procedures outlined in the permit issued by ADEM (ADEM Facility ID 17344-113-015467)
2. Inspect the containment sumps, spill bucket, lids and valves for the underground diesel tank annually.
3. Inspect fueling equipment for cracks, leaks corrosion or failure. Designated personnel should inspect the underground fuel tank and area daily.
4. All fuel operators should be trained in the basics of fuel spill prevention and reporting.
5. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.

VII. FUELING AND FUEL SPILL CLEAN UP:

1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).
2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.
3. Clean up spills promptly and dispose of properly.

4. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.
5. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.
6. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.

VIII. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicle or equipment outside the designated wash area.
8. When washing vehicles and equipment, keep a drain sock handy and close by as it will be used frequently. Clean or replace drain socks when needed.
9. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Effective	<u>March 13, 2017</u>	SOP	<u>M-10</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Water Filtration Plant

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Ensure that the storm drainage system on the property is maintained and cleaned regularly.**
- 5. Recycle used oil, filters, and containers whenever possible. When it is not possible to recycle, properly dispose of items to ensure that contact with storm water is minimized.**

IV. BUILDING AND STRUCTURES:

- 1. Remove trash and debris around buildings and grounds daily or as needed.**
- 2. Have a spill kit and cleanup materials available and ready during painting activities or any activity using chemicals.**
- 3. Clean up paint or other spills promptly.**
- 4. Keep maintenance equipment clean and free of residual chemicals.**
- 5. Use only biodegradable, phosphate free soaps when washing exterior surfaces of buildings and structures.**

V. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

1. Follow compliance recommendations as required by ADEM PWSID Number AL0001142 when storing, handling, mixing, recycling and disposing of liquid and dry chemicals and empty containers properly.
2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.
3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.
4. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly.
5. Recycle or dispose of all used or excess chemicals properly and promptly.
6. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.
7. Keep chemical application equipment clean and free of residual chemicals.
8. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.
9. Used and unused containers should be closed with a tight fitting lid and labeled.
10. Handle, transfer, store, or re-package all chemicals under a covered and well ventilated area.
11. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.
12. Notify the supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements by ADEM to handle properly.

VI. UNDERGROUND STORAGE TANK MAINTENANCE:

1. In case of a major leak or a spill, follow procedures for containment, clean up and disposal. Notify ADEM if required.
2. Inspect the containment sumps, spill bucket, lids and valves for the underground diesel tank annually.
3. Inspect fueling equipment for cracks, leaks corrosion or failure. Designated personal should inspect the underground fuel tank and area daily.
4. All fuel operators should be trained in the basics of fuel spill prevention and reporting.
5. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.

VII. FUELING AND FUEL SPILL CLEAN UP:

1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).
2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.
3. Clean up spills promptly and dispose of properly.

4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.
5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.
6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.
7. When fueling small equipment in the field like lawn mowers, small sweepers, weed eaters, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.

VIII. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicle or equipment outside the designated wash area.
8. When washing vehicles and equipment, keep a drain sock handy and close by as it will be used frequently. Clean or replace drain socks when needed.
9. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Effective	<u>March 13, 2017</u>	SOP	<u>M-11</u>
Rescinds	<u>All Prior</u>	Amends	<u>N/A</u>

SUBJECT:

Cemetery Department

I PURPOSE:

Storm water pollution procedures for the maintenance of facilities, buildings, and fixed structures operated or owned by the City of Phenix City under MS4 Permit.

II. POLICY:

All applicable employees should attend annual training in general storm water pollution prevention; including how to recognize and report illegal discharges and stormwater pollution sources. Utilize Best Management Practices (BMPs) designed to minimize storm water pollution related to municipal operations and maintenance. These BMPs are intended to address storm water pollution from nutrients, sediments, petroleum products and other common pollutants. Standard Operating Procedures and Good Housekeeping should be practiced as follows:

III. GOOD HOUSEKEEPING:

- 1. The Supervisor is responsible for filling out a quarterly checklist for facilities pollution prevention and good housekeeping. All checklists must be turned into the Engineering Department for record keeping.**
- 2. Keep all indoor and outdoor work areas neat and well organized.**
- 3. Sweep and pick up all trash and debris daily or as needed.**
- 4. Maintain spill kits for dry clean up (absorbent dry litter, broom, dust pan and plastic bags for proper disposal).**

IV. CHEMICAL APPLICATIONS AND SPILL PREVENTION:

- 1. Follow label directions when storing, handling, mixing, recycling and disposing of chemicals and empty containers. Properly calibrate application equipment to ensure proper amount of chemicals are applied.**
- 2. Employees without proper training on uses, types, amounts, and application requirements should not handle or apply chemicals.**
- 3. Do not keep chemicals in damaged containers. If damaged, replace or transfer chemicals to new holding containers.**
- 4. Used and unused containers should be closed with a tight fitting lid and labeled.**
- 5. Have a spill kit and cleanup materials available in case of spills. Clean up chemical spills promptly.**
- 6. Recycle or dispose of all used or excess chemicals properly and promptly.**

7. Do not pour or dispose of chemicals directly into the storm drainage system. Transfer over impervious surfaces so spills cannot seep into the ground.
8. Keep all pesticides and herbicides in leak proof shelters away from the elements to help prevent contamination of the storm drainage system.
9. Conduct inspections of materials, equipment and containers to ensure that they are secure and stored properly.
10. Keep chemical application equipment clean and free of residual chemicals.
11. Notify the supervisor if a spill is discovered and of an unknown source as there may be specific disposal requirements.


V. FUELING AND FUEL SPILL CLEAN UP:

1. In case of a leak or a spill, locate the emergency contact sheet posted at the fueling station and call the Engineering Department. The Engineering office handles all fuel spills and follows protocols outlined by ADEM permit (ADEM Facility ID 11063-113-017416).
2. All fuel operators should be trained in the basics of fuel spill prevention and know where a spill kit is located.
3. Clean up spills promptly and dispose of properly.
4. Ensure all fuel operators know where the emergency shut off switch is located and how to use it.
5. Fuel carefully to minimize drips on the ground and do not leave vehicle or equipment unattended while fueling.
6. Only fill fuel tank until the automatic shutoff activates. Topping off increases the chances of a spill.
7. When fueling small equipment in the field like push mowers, weed eaters, back pack blowers, poll saws, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.

VI. VEHICLE AND EQUIPMENT MAINTENANCE:

1. Routinely maintain all vehicles and equipment to ensure that they are operating and stored properly.
2. Monitor parked vehicles and equipment closely for leaks. If a leak is discovered, use a drip pan to catch fluids and follow up with maintenance as soon as possible. Check drip pans frequently and dispose of fluids appropriately.
3. Vehicles or equipment with KNOWN leaks should be repaired promptly.
4. Clean up spills promptly.
5. Remove any buildup of oil and grease on vehicles or equipment prior to storing outdoors.
6. Keep clutter around stored vehicles and equipment to a minimum. A more organized storage area is easier to spot a leak or a spill.
7. Do not wash or hose down any vehicle or equipment outside the designated wash area.
8. Use only biodegradable, phosphate free soaps when washing vehicles, equipment, and storage areas.

BY ORDER OF



Department Head

Appendix III – Construction Forms

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: _____ **Location:** _____
Department: _____ **Facility Contact:** _____
Inspection Date: _____ **Time:** _____ **Inspector:** _____

Overall Facility	Yes	No	N/A	Comments
Work areas clear of trash, chemicals				
Traffic routes clear of trash, chemicals				
Fencing, gating, or lighting is functional				
Spill control supplies fully stocked				
Signs of erosion in vegetated areas				
Interior Chemical Storage				
Materials stored in designated locations				
SDS sheets available				
Containers labeled				
Containers stored away from driving lanes, aisles, or doorways				
Accumulated liquids in spill pallets				
Waste Storage Area				
Waste containers labeled				
Containers stored away from driving lanes, aisles, or doorways				
Waste containers closed when material is not being added				
Waste containers over 3/4 full				
Accumulated liquids in spill pallets				
Spill control supplies fully stocked				
Driving and Parking Areas				
Stains or puddles of chemicals present				
Vehicle Wash Areas				
Foam or sheen present				
Staining present at the facility outfall(s)				
Other				



City of Phenix City Engineering Department

EROSION AND SEDIMENT CONTROL INSPECTION REPORT

DATE: _____ TIME: _____ PROJECT/SUBDIVISION: _____
WEATHER: _____ CITY PERSONNEL: _____
REGULAR _____ WEATHER EVENT _____ CITIZEN COMPLAINT _____ OTHER _____

DAILY REPORT OF ACTIVITIES

INSPECTION BY: _____



City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE: _____ DATE: _____ TIME _____
DATE OF LAST INSPECTION: _____ DESIGN DATA ON FILE: Y ___ N ___
MAINTAINED BY: _____
PHOTOGRAHS TAKEN: Y ___ N ___ NUMBER OF PONDS ONSITE: _____

ITEMS INSPECTED

VEGETATIVE COVER: _____

SEDIMENT: _____

DEBRIS: _____

FENCING: _____

INLETS: _____

EMERGENCY SPILLWAY: _____

COMMENTS/CORRECTIVE ACTION NEEDED: _____

INSPECTED BY: _____

TITLE: _____



**Notification of
The Erosion and Sediment Control Policy of
The City of Phenix City, AL**

Contact Information:

<hr/>	<hr/>
Property Owner	Site Address
<hr/>	<hr/>
Owner Address	Contractor
<hr/>	<hr/>
City / State	Contact Number
<hr/>	<hr/>

You are hereby notified of the Erosion and Sediment Control Policy of the City of Phenix City, AL, adopted on August 16, 2005 by Ordinance 2005-22 and amended on February 21, 2007 by Ordinance 2007-07. Failure to comply with the provisions of the policy could result in the City of Phenix City issuing a citation or a stop work order or both in accordance with the above referenced ordinance.

As required by Section V of the above referenced policy: Before the commencement of any land disturbing activity that affects one acre or more, the owner of the land on which such activity shall be conducted, or their duly authorized agent, shall file with the City of Phenix City copies of their NPDES Permit and obtain approval of a site-specific Erosion and Sediment Control (ESC) Plan.

As required by Section IV of the above referenced policy: Permit by Rule status will be assigned to those non-excluded land disturbing activities less than one acre in size and any existing disturbed sites that are contribution to sediment runoff. These sites, although not required to obtain an NPDES Permit or submit for approval an ESC Plan, are still required to implement and maintain best management practices at the site and are subject to all provisions of the policy.

As required by Section VII of the above referenced policy: Grading, erosion control practices, sediment control practices, and waterway crossings shall meet the design criteria set forth in the most recent version of the BMP Manual(s) approved by ADEM, and any additional requirements set forth by the City and shall be adequate to prevent transportation of sediment from the site to the satisfaction of the City.

I hereby acknowledge that I have read this Notification of the Erosion and Sediment Control Policy of the City of Phenix City.

Signature

Date

City of Phenix City Engineering and Public Works Department

Permit to Construct a Turnout to Provide Access to a City Street (Residential)

Remit to: P.O. Drawer 279, 1206 7th Avenue, Phenix City, AL 36867, (334) 448-2760

Name of Applicant _____

Mailing Address _____

City _____ State _____ Zip Code _____

Telephone Number _____

Office Use Only table with fields: Permit Number, Date Received, Date Approved

Address of Proposed Turnout _____

Description of Work _____

The applicant hereby request permission from the City of Phenix City Engineering Department to construct a turnout to the above named City Street. The applicant agrees that approval of this request is subject to revocation by the Engineering Department and subject to the following terms and conditions:

- 1. The applicant agrees to comply with the current policy, specifications, and standard drawings as set forth by the Phenix City Engineering Department. Information is available at the above remittance address.
2. The applicant agrees to contact the Phenix City Engineering Department for a site evaluation before work on said driveway begins and a pre-posed framing inspection.
3. The applicant is not permitted to use any portion of the City right-of-way for any purpose other than construction and maintenance of the proposed turnout. Structures, signs, trees/shrubs, or any other right-of-way encroachment not described above and/or shown on an attached drawing and approved as a part of this permit are prohibited.
4. The applicant agrees to maintain any drainage structures installed or constructed as a part of this permit and keep the same cleaned out and functioning properly at all times. The City will only maintain that portion of the turnout that ties in with the street that may be necessary due to modifications to the roadway.
5. The applicant shall be responsible for locating any underground utilities that may be in conflict with the proposed work. Any damages that occur to existing utilities, existing drainage structures, or the existing street surface will be the sole responsibility of the applicant. In the case where City forces are installing a pipe and fill for the turnout, the applicant's responsibility is waived for that portion of the work completed by City forces.
6. The applicant agrees that the proposed driveway shall not be constructed above any existing water and/or sanitary sewer services and will provide a minimum horizontal clearance of 5 feet between driveway and said services. This requirement is only for water and sanitary sewer services on which the City of Phenix City would perform repairs such as water services from the main to the meter and sanitary services under street pavement.
7. The applicant is responsible for conforming to the regulations of the Environmental Protection Agency (EPA) and the Alabama Department of Environmental Management (ADEM) for the proposed work. This also applies to any hazardous materials encountered during the construction of the turnout.
8. The applicant shall not make any additions or modifications to the turnout or surrounding right-of-way without obtaining a new permit from the Phenix City Engineering Department. The applicant also agrees that the City of Phenix City or its contractors have the right to remove and/or reconstruct the turnout if it becomes necessary without any compensation to the applicant.
9. The turnout and related work covered by this permit shall be completed within one year from the date of application or the permit becomes null and void. Once work has begun it shall be pursued in a continuous and diligent manner until completion.

Signed _____ Applicant _____ Date _____

Recommended for Approval:

APPROVED:

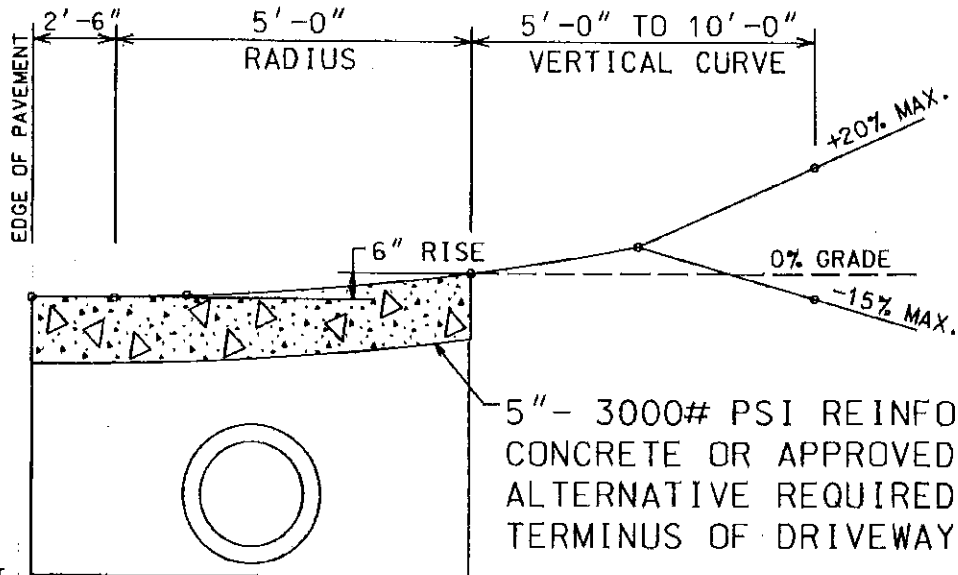
Authorized Representative _____ Title _____ Date _____

City Engineer _____

Date

☒ PROFILE SECTION

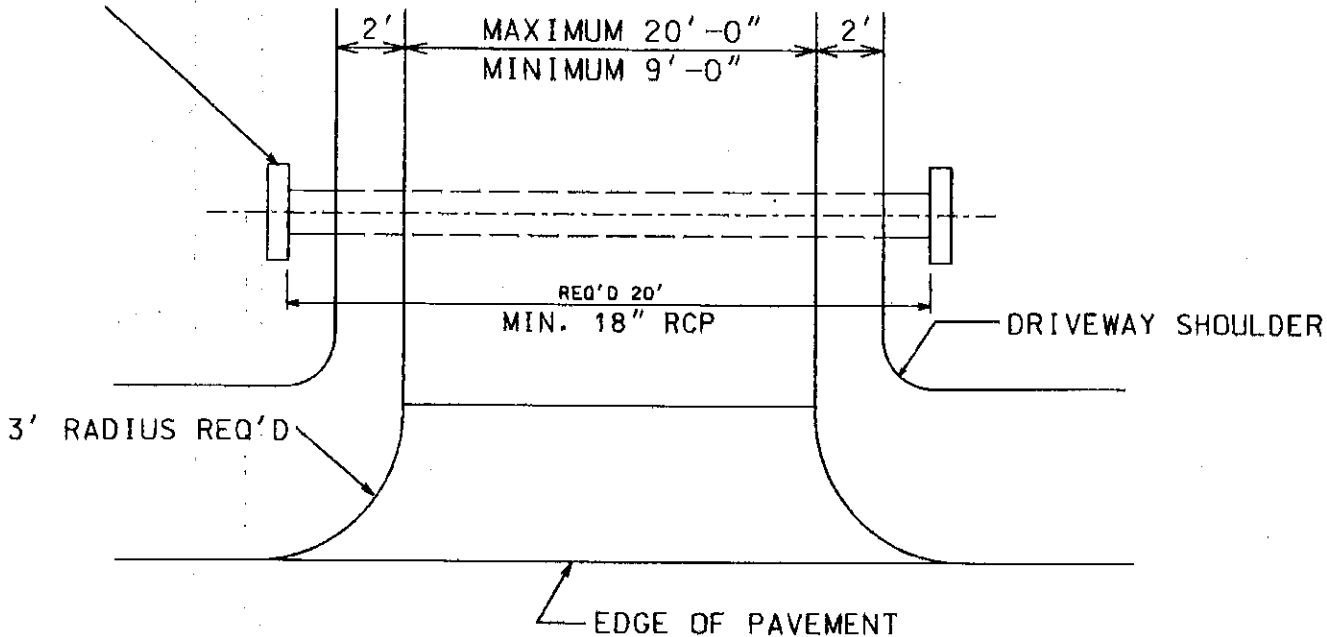
(NOT TO SCALE)



SLOPED PAVED HEADWALL OR FLARE END SECTIONS REQ'D AT EACH END ALTERNATIVE TYPES OF HEADWALLS MUST HAVE APPROVAL OF ENGR. DEPT.

SEE ALABAMA DEPT. OF TRANSPORTATION SPC. DWG. FE-619 (FLARED END SECT) SPC. DWG. HW 614-B (SLOPED PAVED)

5" - 3000# PSI REINFORCED CONCRETE OR APPROVED ALTERNATIVE REQUIRED TO TERMINUS OF DRIVEWAY RADIUS



RESIDENTIAL DRIVEWAY WITH RADIUS DITCH SECTION

NOTES:

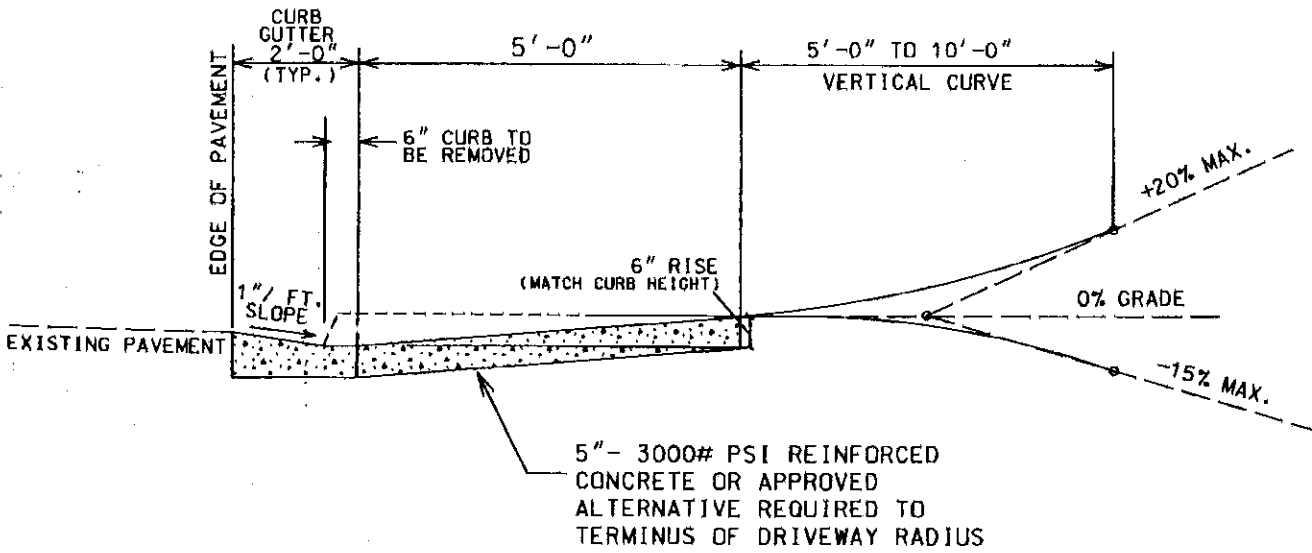
- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

DETAILS FOR RESIDENTIAL TURNOUT (RURAL SECTION) RADIUS

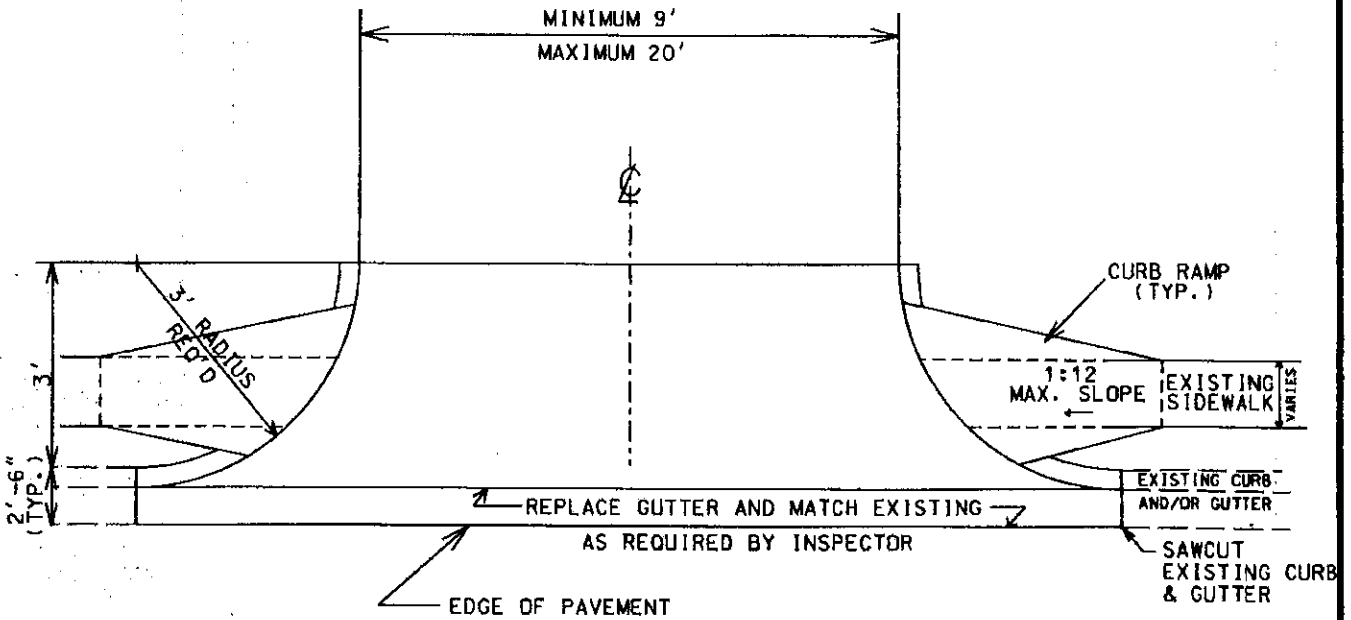
PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TO-100 B	12-6-93	BQ
SCALE:	REVISIONS:	
N.T.S.	10-04-06	ABT
	9-29-08	ABT

☐ PROFILE SECTION
(NOT TO SCALE)



PLAN VIEW
(NOT TO SCALE)



RESIDENTIAL DRIVEWAY WITH RADIUS CURB & GUTTER

NOTES:

- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

DETAILS FOR RESIDENTIAL TURNOUT (URBAN SECTION) RADIUS

PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TO-100 A	12-6-93	BO
SCALE:	REVISIONS:	
N.T.S.	10-04-06	ABT
	9-29-08	ABT

City of Phenix City Engineering and Public Works Department

Permit to Construct a Turnout to Provide Access to a City Street (Commercial)

Remit to: P.O. Drawer 279, 1206 7th Avenue, Phenix City, AL 36867, (334) 448-2760

Name of Applicant _____

Mailing Address _____

City _____ State _____ Zip Code _____

Telephone Number _____

Address of Proposed Turnout _____

Description of Work Shown on the Attached Drawing (may require stamp by a licensed engineer if conditions warrant)

Office Use Only	
Permit Number	_____
Date Received	_____
Date Approved	_____

The applicant hereby request permission from the City of Phenix City Engineering Department to construct a turnout to the above named City Street. The applicant agrees that approval of this request is subject to revocation by the Engineering Department and subject to the following terms and conditions:

1. The applicant agrees to comply with the current policy, specifications, and standard drawings as set forth by the Phenix City Engineering Department. Information is available at the above remittance address.
2. The applicant agrees to contact the Phenix City Engineering Department for a site evaluation before work on said driveway begins and a pre-poured framing inspection.
3. The applicant is not permitted to use any portion of the City right-of-way for any purpose other than construction and maintenance of the proposed turnout. Structures, signs, trees/shrubs, or any other right-of-way encroachment not described above and/or shown on an attached drawing and approved as a part of this permit are prohibited.
4. The applicant agrees to maintain any drainage structures installed or constructed as a part of this permit and keep the same cleaned out and functioning properly at all times. The City will only maintain that portion of the turnout that ties in with the street that may be necessary due to modifications to the roadway.
5. The applicant shall be responsible for locating any underground utilities that may be in conflict with the proposed work. Any damages that occur to existing utilities, existing drainage structures, or the existing street surface will be the sole responsibility of the applicant. In the case where City forces are installing a pipe and fill for the turnout, the applicant's responsibility is waived for that portion of the work completed by City forces.
6. The applicant agrees that the proposed driveway shall not be constructed above any existing water and/or sanitary sewer services and will provide a minimum horizontal clearance of 5 feet between driveway and said services. This requirement is only for water and sanitary sewer services on which the City of Phenix City would perform repairs such as water services from the main to the meter and sanitary services under street pavement.
7. The applicant is responsible for conforming to the regulations of the Environmental Protection Agency (EPA) and the Alabama Department of Environmental Management (ADEM) for the proposed work. This also applies to any hazardous materials encountered during the construction of the turnout.
8. The applicant shall not make any additions or modifications to the turnout or surrounding right-of-way without obtaining a new permit from the Phenix City Engineering Department. The applicant also agrees that the City of Phenix City or its contractors have the right to remove and/or reconstruct the turnout if it becomes necessary without any compensation to the applicant.
9. The turnout and related work covered by this permit shall be completed within one year from the date of application or the permit becomes null and void. Once work has begun it shall be pursued in a continuous and diligent manner until completion.

Signed _____
Applicant Date

Recommended for Approval:

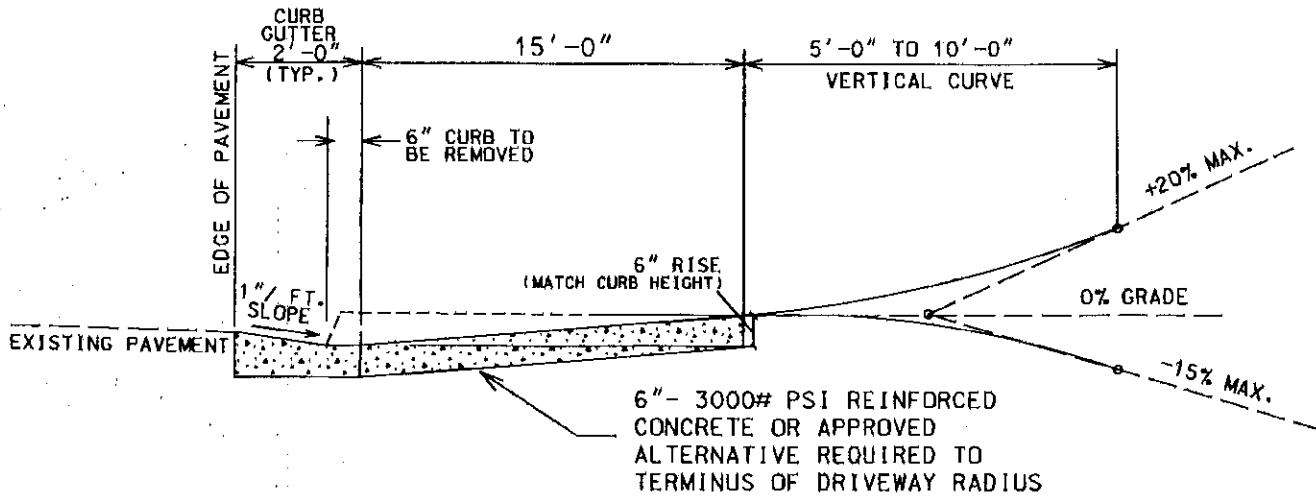
Authorized Representative Title Date

APPROVED:

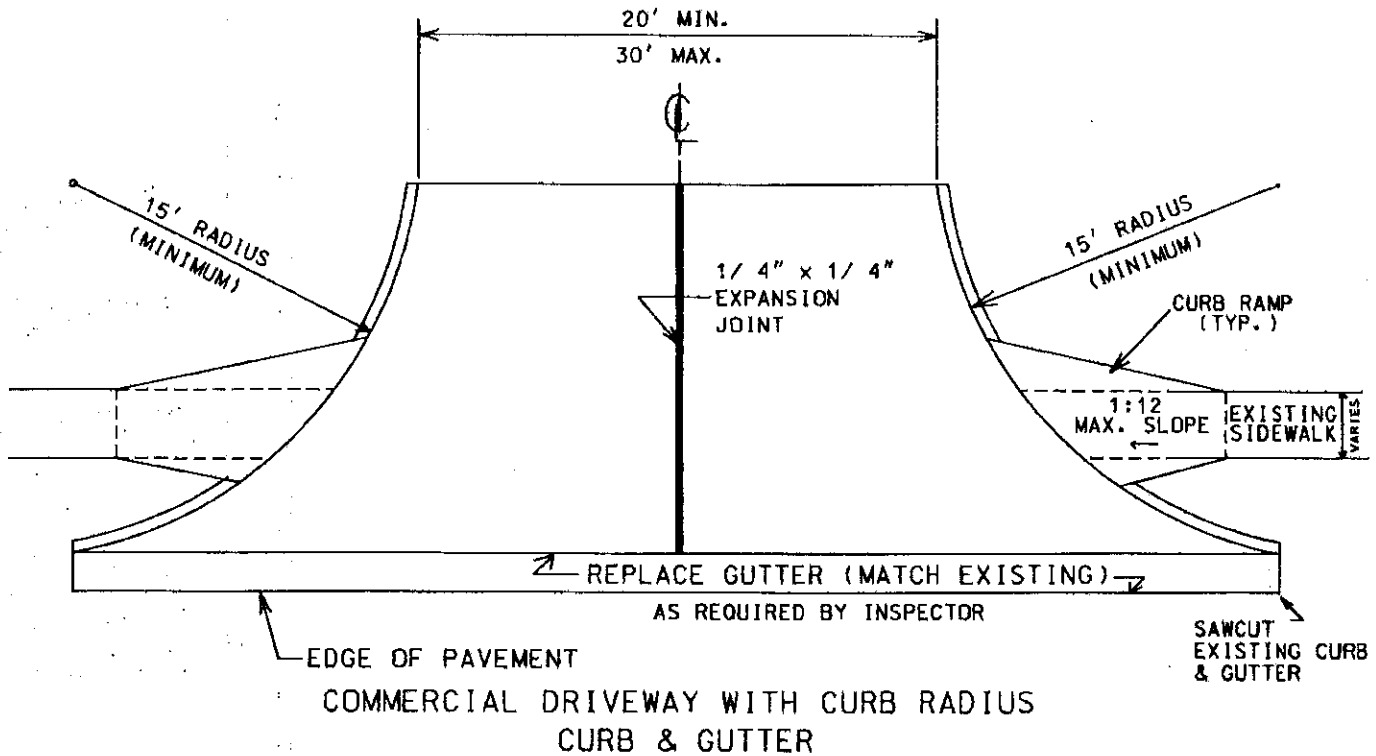
City Engineer

Date

C. PROFILE SECTION
(NOT TO SCALE)



PLAN VIEW
(NOT TO SCALE)



PROFILE NOT TO SCALE

NOTES:

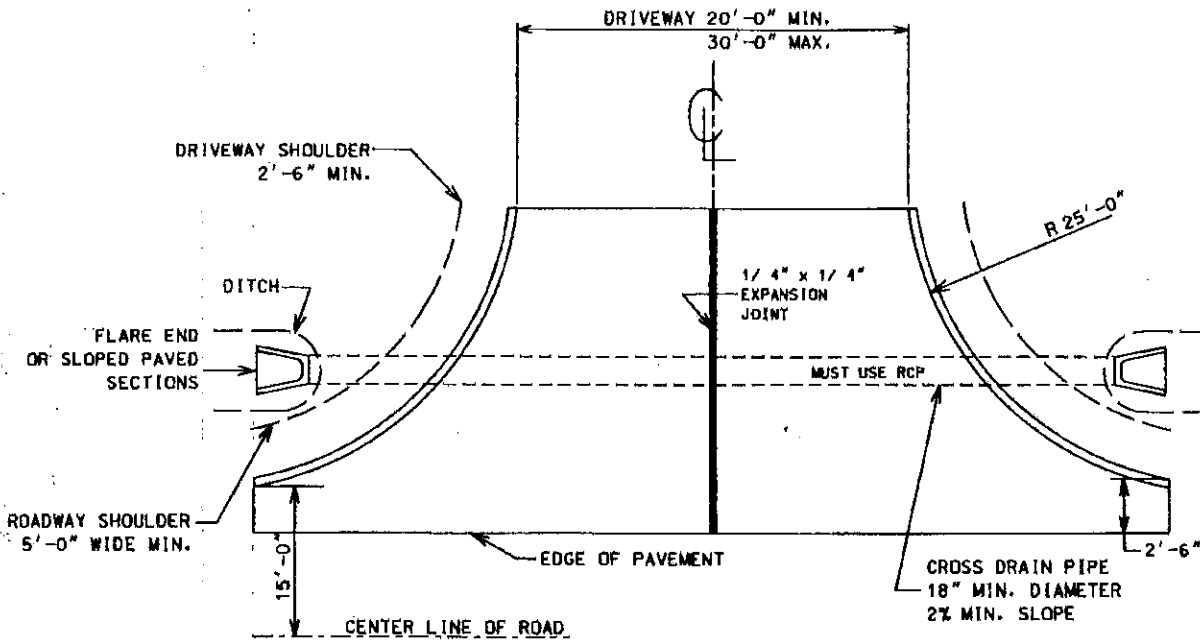
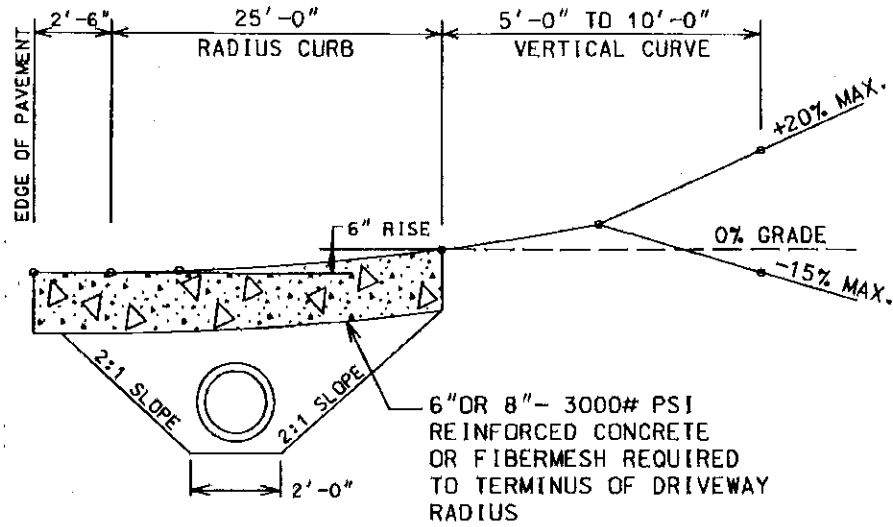
- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

DETAILS FOR TURNOUT COMMERCIAL (URBAN SECTION) RADIUS

PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TO-100 C	12-6-93	BO
SCALE:	REVISIONS:	
N.T.S.	10-04-06	ABT
	9-29-08	ABT

☉ PROFILE SECTION
(NOT TO SCALE)



COMMERCIAL DRIVEWAY WITH CURB RADIUS
DITCH SECTION

PROFILE NOT TO SCALE

NOTES:

- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR, TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
- A PERMIT IS REQUIRED TO CONSTRUCT A TURNOUT ON CITY RIGHT OF WAY. CONTACT THE PHENIX CITY ENGINEERING DEPARTMENT (448-2760).
- LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. CALL ALA. LINE LOC. CENTER (1-800-292-8525) AND P.C. UTILITIES (448-2902).

DETAILS FOR COMMERCIAL TURNOUT
(RURAL SECTION) RADIUS

PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

DWG. NO.:	DATE:	BY:
TO-100 D	12-6-93	BQ
SCALE:	REVISIONS:	
N. T. S.	10-04-06	ABT
	9-29-08	ABT

Appendix IV – Supporting Documents

**Public Education and Public Involvement
On Storm Water Impacts**



Phase II Stormwater Program

Spring 2017

Illicit Discharges!

What is an Illicit Discharge?

An Illicit Discharge is defined as any discharge, unless specifically exempted, not composed entirely of stormwater. Illicit Discharges typically enter the Storm Sewer Systems through an unwarranted connection. Stormwater conveyance systems are sometimes employed illegally as an inexpensive and/or convenient alternative to proper disposal of waste or wastewater. These illegal disposals can occur as illicit connections from commercial or business establishments, private residences or directly dumping into storm drain inlets.

Are all Non-Stormwater Discharges Illicit?

It is important to note that there are many non-storm water discharges that are not considered illicit discharges. These include water line flushing, landscape irrigation and irrigation water, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, street wash water, water used for fire fighting, flows from riparian habitats and wetlands, dechlorinated swimming pool discharges (usually 10 days after you last added chlorine — use a pool water test kit to be sure.).

Although allowed, if any of these activities prove to be a significant pollution hazard, the activity will be stopped and the discharge method modified to protect the environment.

What is a Stormwater Conveyance System?

Stormwater is the water from rain which flows over the ground or pavement without soaking into the ground. The stormwater conveyance system includes roadside ditches, gutters, inlets, catch basins and underground pipes that collect stormwater and carry it away from streets, parking lots and yards.

Is There a Regulation Regarding Illicit Discharges?

On February 7, 2017, the City Council passed Ordinance No. 2017-01, amending the Code of Ordinances of the City of Phenix City, Alabama, adding Chapter 10 ½ Stormwater Management, to regulate discharges and connections to the storm sewer system within the corporate limits of the City. A copy of this ordinance is available on the City's website, www.phenixcityal.us.

How Can I prevent Stormwater Pollution?

We can all play a large role in controlling Illicit Discharges as follows:

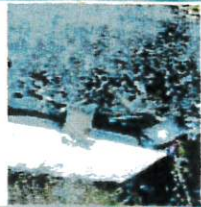
1. Do not dump leaves and grass clippings into ditches, storm inlets or creeks. Gather leaves and grass clippings and place them in an appropriate location for collection.
2. Do not pour motor oil, antifreeze or any other chemicals down storm inlets. One quart of oil can contaminate 250,000 gallons of water. If you spill oil or any other fluids, do not hose or wash off the spill. Instead, spread kitty litter to absorb the spill, then sweep it up into a bag and put it in the trash.
3. Minimize the use of pesticides and herbicides (insect and weed killers). Some of the products are deadly to fish, birds and other wildlife. If you use them, be sure to use the right product and the right amount. Excessive watering or rainfall will cause these chemicals to be washed into waterways when not applied properly.
4. If you plan on fertilizing your lawn, contact the County Extension Service for a soil test kit. The results of the test will help you determine the proper nutrient needs of your lawn and eliminate unnecessary or excessive fertilizers.
5. Take advantage of recycling opportunities. The City offers two (2) locations at 1100 Airport Road and 709 12th Street. The public can recycle aluminum, cardboard, paper, steel, tin and plastics (#1, #2 or #5 only).
6. Failing septic systems can discharge inadequately treated sewage that may contaminate surface and ground water. This discharge contains bacteria and viruses that can be harmful to humans and aquatic habitats. Schedule periodic inspections and maintenance to make sure the system is functioning properly. This will help reduce the potential for environmental impacts.

Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water.



Why is stormwater runoff a problem?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground and streets prevent stormwater from naturally soaking into the ground.



What is stormwater runoff?

After the Storm



For more information contact:

City of Phenix City
 Engineering / Public Works
 1206 7th Avenue
 Phenix City, Alabama 36868
 334-448-2760

or visit
www.epa.gov/npdes/stormwater
www.epa.gov/nps



EPA 833-B-03-002

January 2003



A Citizen's Guide to
 Understanding Stormwater



◆ Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.

◆ Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.



◆ Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.



◆ Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.

◆ Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.

◆ Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.

The effects of pollution



Stormwater Pollution Solutions

Residential



Recycle or properly dispose of household products that contain chemicals, such as insecticides, pesticides, paint, solvents, and used motor oil and other auto fluids. Don't pour them onto the ground or into storm drains.

Lawn care

Excess fertilizers and pesticides applied to lawns and gardens wash off and pollute streams. In addition, yard clippings and leaves can wash into storm drains and contribute nutrients and organic matter to streams.



- ◆ Don't overwater your lawn. Consider using a soaker hose instead of a sprinkler.
- ◆ Use pesticides and fertilizers sparingly. When use is necessary, use these chemicals in the recommended amounts. Use organic mulch or safer pest control methods whenever possible.
- ◆ Compost or mulch yard waste. Don't leave it in the street or sweep it into storm drains or streams.
- ◆ Cover piles of dirt or mulch being used in landscaping projects.

Auto care

Washing your car and degreasing auto parts at home can send detergents and other contaminants through the storm sewer system. Dumping automotive fluids into storm drains has the same result as dumping the materials directly into a waterbody.



- ◆ Use a commercial car wash that treats or recycles its wastewater, or wash your car on your yard so the water infiltrates into the ground.
- ◆ Repair leaks and dispose of used auto fluids and batteries at designated drop-off or recycling locations.



Education is essential to changing people's behavior. Signs and warnings near storm drains warn residents that pollutants entering the drains will be carried untreated into a local waterbody.

Residential landscaping

Permeable Pavement—Traditional concrete and asphalt don't allow water to soak into the ground. Instead these surfaces rely on storm drains to divert unwanted water. Permeable pavement systems allow rain and snowmelt to soak through, decreasing stormwater runoff.

Rain Barrels—You can collect rainwater from rooftops in mosquito-proof containers. The water can be used later on lawn or garden areas.



Rain Gardens and Grassy Swales—Specially designed areas planted with native plants can provide natural places for rainwater to collect and soak into the ground. Rain from rooftop areas or paved areas can be diverted into these areas rather than into storm drains.



Vegetated Filter Strips—Filter strips are areas of native grass or plants created along roadways or streams. They trap the pollutants stormwater picks up as it flows across driveways and streets.

Septic systems

Leaking and poorly maintained septic systems release nutrients and pathogens (bacteria and viruses) that can be picked up by stormwater and discharged into nearby waterbodies. Pathogens can cause public health problems and environmental concerns.



- ◆ Inspect your system every 3 years and pump your tank as necessary (every 3 to 5 years).
- ◆ Don't dispose of household hazardous waste in sinks or toilets.

Pet waste

Pet waste can be a major source of bacteria and excess nutrients in local waters.



- ◆ When walking your pet, remember to pick up the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.



Commercial

Dirt, oil, and debris that collect in parking lots and paved areas can be washed into the storm sewer system and eventually enter local waterbodies.

- ◆ Sweep up litter and debris from sidewalks, driveways and parking lots, especially around storm drains.
- ◆ Cover grease storage and dumpsters and keep them clean to avoid leaks.
- ◆ Report any chemical spill to the local hazardous waste cleanup team. They'll know the best way to keep spills from harming the environment.

Erosion controls that aren't maintained can cause excessive amounts of sediment and debris to be carried into the stormwater system. Construction vehicles can leak fuel, oil, and other harmful fluids that can be picked up by stormwater and deposited into local waterbodies.

- ◆ Divert stormwater away from disturbed or exposed areas of the construction site.
- ◆ Install silt fences, vehicle mud removal areas, vegetative cover, and other sediment and erosion controls and properly maintain them, especially after rainstorms.
- ◆ Prevent soil erosion by minimizing disturbed areas during construction projects, and seed and mulch bare areas as soon as possible.



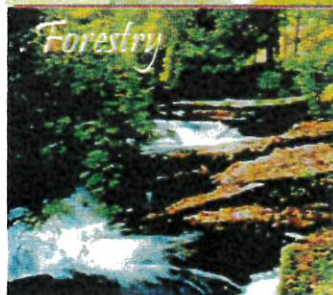
Construction

Agriculture

Lack of vegetation on streambanks can lead to erosion. Overgrazed pastures can also contribute excessive amounts of sediment to local waterbodies. Excess fertilizers and pesticides can poison aquatic animals and lead to destructive algae blooms. Livestock in streams can contaminate waterways with bacteria, making them unsafe for human contact.



- ◆ Keep livestock away from streambanks and provide them a water source away from waterbodies.
- ◆ Store and apply manure away from waterbodies and in accordance with a nutrient management plan.
- ◆ Vegetate riparian areas along waterways.
- ◆ Rotate animal grazing to prevent soil erosion in fields.
- ◆ Apply fertilizers and pesticides according to label instructions to save money and minimize pollution.

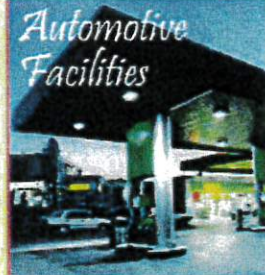


Forestry

Improperly managed logging operations can result in erosion and sedimentation.

- ◆ Conduct preharvest planning to prevent erosion and lower costs.
- ◆ Use logging methods and equipment that minimize soil disturbance.
- ◆ Plan and design skid trails, yard areas, and truck access roads to minimize stream crossings and avoid disturbing the forest floor.
- ◆ Construct stream crossings so that they minimize erosion and physical changes to streams.
- ◆ Expedite revegetation of cleared areas.

Automotive Facilities



Uncovered fueling stations allow spills to be washed into storm drains. Cars waiting to be repaired can leak fuel, oil, and other harmful fluids that can be picked up by stormwater.

- ◆ Clean up spills immediately and properly dispose of cleanup materials.
- ◆ Provide cover over fueling stations and design or retrofit facilities for spill containment.
- ◆ Properly maintain fleet vehicles to prevent oil, gas, and other discharges from being washed into local waterbodies.
- ◆ Install and maintain oil/water separators.

Stormwater and the Construction Industry

Protect Natural Features



- Minimize clearing.
- Minimize the amount of exposed soil.
- Identify and protect areas where existing vegetation, such as trees, will not be disturbed by construction activity.
- Protect streams, stream buffers, wetlands, wetlands, or other sensitive areas from any disturbance or construction activity by fencing or otherwise clearly marking these areas.

Construction Phasing



- Sequence construction activities so that the soil is not exposed for long periods of time.
- Schedule or limit grading to small areas.
- Install key sediment control practices before site grading begins.
- Schedule site stabilization activities, such as landscaping, to be completed immediately after the land has been graded to its final contour.

Vegetative Buffers



- Protect and install vegetative buffers along waterbodies to slow and filter stormwater runoff.
- Maintain buffers by mowing or replanting periodically to ensure their effectiveness.

Silt Fencing



- Inspect and maintain silt fences after each rainstorm.
- Make sure the bottom of the silt fence is buried in the ground.
- Securely attach the material to the stakes.
- Don't place silt fences in the middle of a waterway or use them as a check dam.
- Make sure stormwater is not flowing around the silt fence.

Maintain your BMPs!

www.epa.gov/npdes/menubmps

Site Stabilization



- Vegetate, mulch, or otherwise stabilize all exposed areas as soon as land alterations have been completed.

Construction Entrances



- Remove mud and dirt from the tires of construction vehicles before they enter a paved roadway.
- Properly size entrance BMPs for all anticipated vehicles.
- Make sure that the construction entrance does not become buried in silt.

Slopes



- Rough grade or terrace slopes.
- Back up long slopes with sediment barriers, or under drains or divert stormwater away from slopes.

Dirt Stockpiles



- Cover or seed all dirt stockpiles.

Storm Drain Inlet Protection



- Use rock or other appropriate material to cover the storm drain inlet to filter out trash and debris.
- Make sure the rock size is appropriate (usually 1 to 2 inches in diameter).
- If you use inlet filters, maintain them regularly.

Alabama
RAIN BARREL PROJECT

when it rains...
it stores.

Rain barrels are a fun and easy way to use water wisely. Water collected in a rain barrel can be used to water the lawn, garden or indoor plants or to wash the car or dog. Using collected rain water reduces the water bill, helps protect streams and replenishes groundwater.



saving our water, one drop at a time.

Healthy landscape practices promote environmental conservation and keep nature's water cycle flowing for our plants and animals.

A Partnership of:



Coca-Cola Refreshments



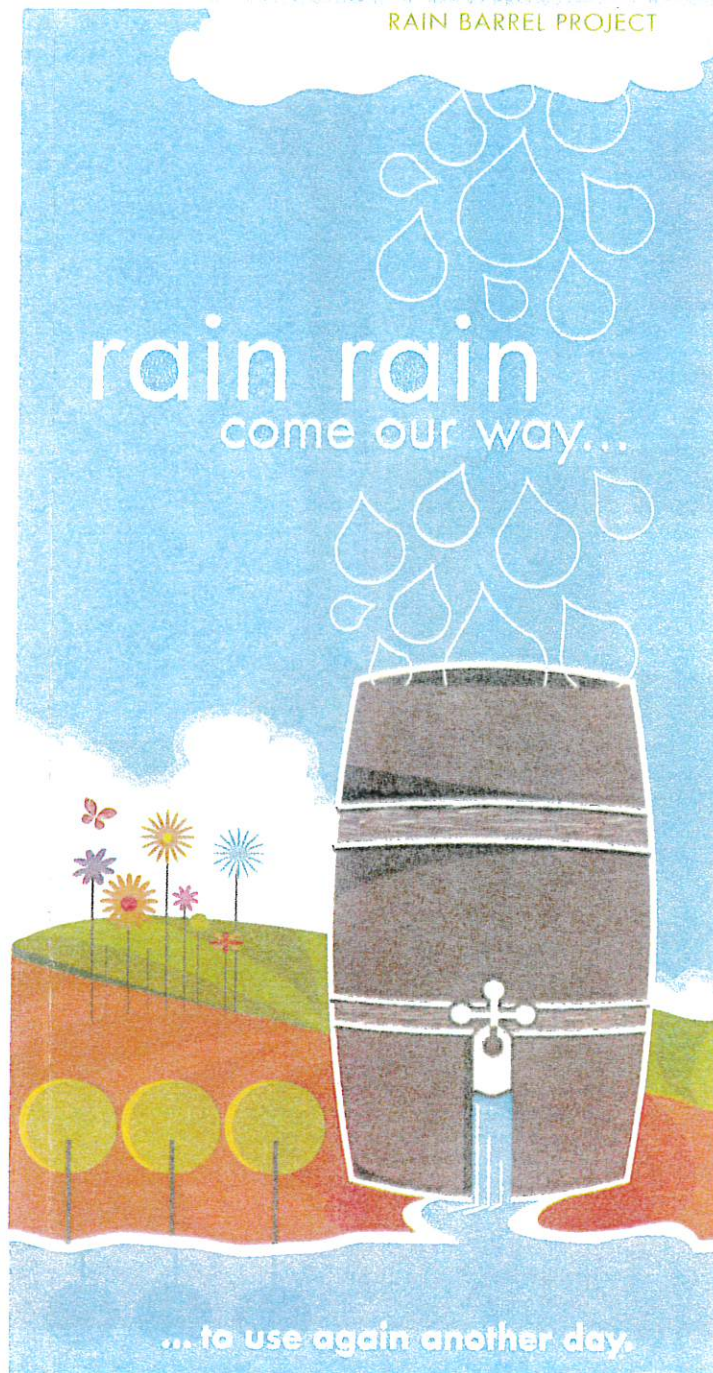
Set up a rain barrel system yourself!
It's fun and easy!

Just call 205.266.6285 or visit
www.CleanWaterPartnership.org

or
www.alabamaRAINBARRELproject.com
for the next workshop in your area.



Alabama
RAIN BARREL PROJECT



rain rain
come our way...

...to use again another day.



1 Rainwater – should be used by people, plants and trees and should replenish groundwater with only a small portion making its way to our streams. If it runs off quickly, it is called stormwater runoff.

2 Rain Barrel – an easy to make container that saves rainwater for use during a dry period. This saves you money on your water bill and helps protect our water resources.

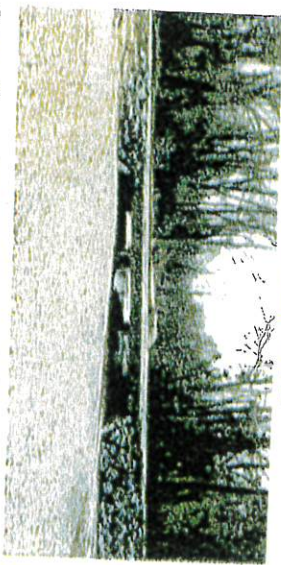
3 Impervious Surface – your driveway is an impervious surface along with the street and roof. This means that rainwater cannot make its way into the ground where it would water plants and replenish groundwater. Instead it runs off quickly to streams and creeks.

4 Rain Garden – an easy to plant garden that uses native plants to help clean stormwater runoff and allows it to replenish groundwater.

5 Groundwater – water that is found underground and supplies well water for our cities, farmers and families. It also provides the year-round flow for many streams and creeks.

6 Surface Water – water that is found in streams and rivers and provides water for our cities, industries and recreation. When rain occurs, water rushes from impervious surfaces picking up pollutants that are on the ground, carrying them straight to the creek or stream.

Sediment Sources

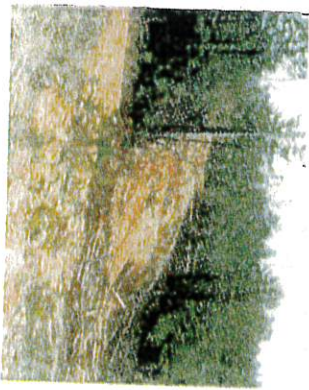


Question: Why do we have off-site sediment and muddy water (turbidity) problems? The answers are in the pictures below and to the right.

Farms with Eroding Fields



Disturbed Forests with Ineffective BMPs



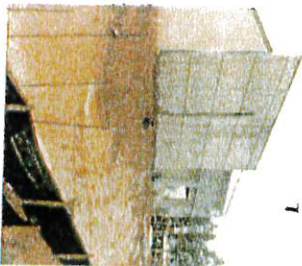
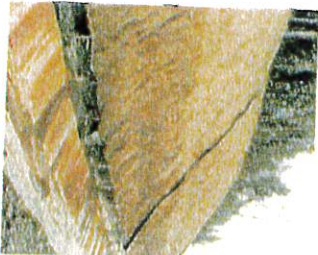
Abandoned Pit, abandoned surface lines, and roads that need stabilization



Abandoned Fields in the Urban/Agricultural/Forest Interface and Linear Construction



Construction Sites of All Kinds (subdivisions, commercial, schools, and roads)



Dirt Roads



A problem situation may have been left out, but you should get the picture . . .

Sediment and muddy water (turbidity) come from the land that needs stewardship of our soil and water.

Alabama is blessed with abundant rainfall, creeks, rivers, lakes, and reservoirs. Erosion problems should be addressed!
What Can You Do?

All landowners: Control erosion and minimize off-site sediment delivery at your sites.

Planner and designers of construction sites: Develop plans that use sound technology to minimize erosion and sediment delivery

Developers: Ensure that your newly developed sites do not create sediment and turbidity problems

Contractors: Install and maintain best management practices (BMPs) according to the stormwater pollution prevention plan

Local governments: Ensure that your regulations are sound and effectively followed

All Alabama citizens: Support local and state programs of soil and water conservation

Visit the website of the Alabama Soil and Water Conservation Committee for links to partnership participants: www.swcc.alabama.gov

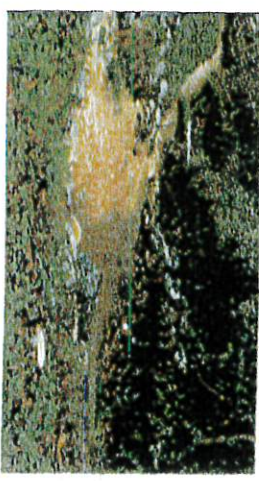
This brochure was developed under the leadership of the AL Soil & Water Conservation Committee with support of the Erosion and Sediment Control Steering Committee (members of the Steering Committee are representatives from the entities below):

- AL Association of Conservation Districts
- AL Department of Environmental Management
- AL Department of Transportation
- AL Soil & Water Conservation Society
- Associated General Contractors of AL
- Home Builders Association of AL
- USDA-Natural Resources Conservation Service
(USDA is an equal opportunity provider and employer.)

With assistance from the:

- Alabama Water Watch Program and Auburn University
- Brochure partially funded by the Alabama Department of Environmental Management through a Clean Water Act Section 319(h) nonpoint source grant provided by the U.S. Environmental Protection Agency Region 4.

Let's Look at Sediment!



Sediment

Sediment

Sediment!

Why All The Fuss?

We often hear... "Sediment is the nation's biggest pollutant in our streams, lakes, and water courses."

**Sediment impacts the environment!
It costs land owners and local and county governments countless dollars.**

This brochure has two purposes:

- Help readers gain a better understanding of the problems associated with sediment
- Stimulate stewardship of our land and water resources

Sediment is the soil particles that are detached during the erosion process. These particles are deposited somewhere down the slope. Likely locations for sediment deposits include ditches, ponds, lakes, creeks, and rivers. Some sediment reaches the Gulf of Mexico.

And there is more to the story. While some soil particles are deposited, other smaller soil particles can remain in the water for a long time. This water is "turbid" and damages the aquatic environment.

The impacts of sediment and turbidity can be seen in the pictures to the right.

Pictures on the back of this brochure show sites that may deliver sediment and turbid water and create problems to our waterways and the aquatic environment.

In addition to the purposes stated above, this brochure also illustrates why sediment and turbidity are considered non-point pollutants. These pollutants come from many sites and collectively create problems that need to be addressed.

As a concerned Alabamian - review this brochure closely, and then pass it on to someone else for their benefit.

Accelerated erosion, sediment, and turbidity.

These natural process of erosion is accelerated by human disturbance of the land. The resulting sediment and turbidity are harmful to aquatic life in streams, reservoirs, estuaries and bays of Alabama.



Water-caused erosion produces sediments that enter local waterways and starts a journey downstream, maybe to Mobile Bay or other bays in the Gulf of Mexico.



Erosion occurring in Georgia, Mississippi, and Alabama contributed to the sediment plume at right that spans from the Mobile Delta through Mobile Bay out into the Gulf of Mexico.



Environmental Problems

Smothers Stream Bottoms and Clouds the Water. Sediment degrades aquatic habitat and turbidity restricts light and plant growth. This disrupts the food chain and impairs fish and aquatic insect populations.



Caddisfly



Darter



Mayfly

These aquatic insects and fish are important food sources for many sport fish found in Alabama.

Reduces Populations of Sensitive Sport Fish.

Suspended sediment reduces visibility and damage fish gills, affecting the ability of fish to feed and breathe. Pollution-sensitive sport fish such as bass and bream are often replaced with more pollution tolerant and less popular carp and suckers.



Black Crappie



Largemouth Bass



Redear Bream



Striped Bass

Desirable sport fish that are negatively affected by sediment.

Transports Harmful Levels of Pollutants.

Sediment carries pathogens, nutrients, and toxic materials such as heavy metals and chemicals into our waterways. These pollutants affect drinking water and surface water quality, contribute to increased water treatment costs, fish consumption advisories, and expand oxygen depleted "anoxic zones" commonly called "dead zones" in the Gulf of Mexico.



Pollutants accumulate in fish tissue and are hazardous to other organisms when consumed.

Sediment Impacts our Waterways.



Dredge removing sediment from the Alabama River.

**Qualified Credentialed Inspector (QCI) and
Certified Stormwater Inspector (CSI)
Certifications**



QCI Training Program



Certificate of Completion

is hereby granted to:

Paul Chastain

City of Phenix City

for satisfactory completion of

Online Refresher

Training

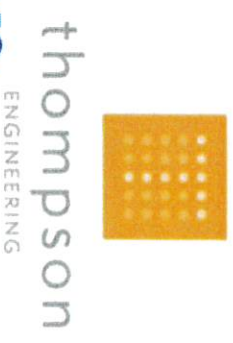
QCI No. T0716

Expires 3/30/2019

This certificate confers four (4.0) professional development hour (PDH) equivalents to students who require credits for licenses or certifications. Such PDHs are subject to the qualifying requirements of the licensing or certifying organization.



QCI Training Program



Certificate of Completion

is hereby granted to:

Rebecca Woods

City of Phenix City

for satisfactory completion of

Online Refresher

Training

QCI No. T4814

Expires 7/14/2018

This certificate confers four (4.0) professional development hour (PDH) equivalents to students who require credits for licenses or certifications. Such PDHs are subject to the qualifying requirements of the licensing or certifying organization.

This certifies that

Richard Carlson of the City of Phenix City

has successfully completed the

**QUALIFIED CREDENTIALLED INSPECTOR TRAINING
FOR CONSTRUCTION SITE STORMWATER MANAGEMENT**

offered by the

HOME BUILDERS ASSOCIATION OF ALABAMA

QUALIFIED CREDENTIALLED
INSPECTOR



Protecting our environment through stormwater management
HOME BUILDERS ASSOCIATION OF ALABAMA

R. Carlson

Signature

02/22/2018

Date

OCI NUMBER 63899
VALID THROUGH FEBRUARY 27, 2019

CERTIFIED STORMWATER INSPECTOR

PAUL CHASTAIN

HAS BEEN AWARDED THIS CERTIFICATE OF ACHIEVEMENT FOR HAVING SUCCESSFULLY COMPLETED ALL REQUIREMENTS OF THE NATIONAL STORMWATER CENTER TRAINING COURSE

THIS CERTIFICATION IS EFFECTIVE FOR A PERIOD OF FIVE YEARS AND INCLUDES 1.2 CONTINUING EDUCATION UNITS (CEUS)

DISCIPLINES DEVELOPED:
STORMWATER PERMIT COMPLIANCE
AND INSPECTIONS OF INDUSTRIAL
ACTIVITIES, COMMERCIAL FACILITIES,
CONSTRUCTION PROJECTS, AND
MUNICIPAL OPERATIONS



POLLUTION PREVENTION
ILLICIT DISCHARGE DETECTION AND
ELIMINATION
PUBLIC EDUCATION AND INVOLVEMENT
CONSTRUCTION
POST CONSTRUCTION

A handwritten signature in black ink, appearing to read 'Michele Lomax', is written over a horizontal line.

MICHELE LOMAX, DIRECTOR OF OPERATIONS

8867

CERTIFICATE NUMBER

MARCH 8, 2018

DATE

THE NATIONAL STORMWATER CENTER
107-F EAST BROADWAY STREET BEL AIR, MD 21014
WWW.NPDES.COM

Municipal Facility BMP Inspection Checklist

(Example)

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: City of Phenix City WWTP

Location: 1600 East State Docks Rd

Department: Utilities

Facility Contact: Charles Woody

Inspection Date: 3/16/18 Time: 7:35am

Inspector: Jeremiah Caldwell

	Yes	No	N/A	Comments
Overall Facility				
Work areas clear of trash, chemicals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Traffic routes clear of trash, chemicals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fencing, gating, or lighting is functional	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spill control supplies fully stocked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Signs of erosion in vegetated areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Interior Chemical Storage				
Materials stored in designated locations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SDS sheets available	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers labeled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers stored away from driving lanes, aisles, or doorways	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Accumulated liquids in spill pallets	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Waste Storage Area				
Waste containers labeled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Need to put a new label on the tote (pallet).
Containers stored away from driving lanes, aisles, or doorways	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste containers closed when material is not being added	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste containers over 3/4 full	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Accumulated liquids in spill pallets	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Spill control supplies fully stocked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Driving and Parking Areas				
Stains or puddles of chemicals present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Vehicle Wash Areas				
Foam or sheen present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Staining present at the facility outfall(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Other				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

List of Municipal Facilities

Cemetery – 1206 7th Avenue

Fire Station No. 1 – 1910 Crawford Road

Fire Station No. 3 – 510 South Seale Road

Fire Station No. 4 – 1300 Airport Road

Lakewood Golf Course – 2800 Lakewood Drive

Parks and Recreation Maintenance Shop – 1150 Airport Road

Public Safety Building – 1111 Broad Street

Public Works – 1111 Broad Street, Building B

Utility Department – 1118 Broad Street

Water Filtration Plant – 1100 32nd Street

Waste Water Treatment Plant – 1600 East State Docks Road

Vehicle Maintenance and Inspection
(Example)

Phenix City Public Works

Fleet Maintenance Preliminary Worksheet

WO#	Date	Equipment Code	Equipment Name	Department	Odometer	Status
31283	03/05/18	ENG-27	2007 FORD F-150 ENG-27	6 - Engineering	78,510 M	Completed

Service / Repair Notes

1 NEED OIL CHANGE AND REPLACE WIPERS... BARBARA DELONG
 2
 3 WC-
 4 REPLACED WIPER BLADES
 5 CHANGED OIL AND FILTERS
 6 DUE SERVICE AGAIN AT 81510

Quantity	Part Number	Description	Unit Cost	Total Cost

Mechanic's Comments:

Mechanic: _____ Checked By: _____ Date Completed: _____

PM Item Code / Name	Every	WO#	Serv Date	Odometer
<input type="checkbox"/>				

Part Number	Description	Quantity
10W30 (QT)	10w30 Oil	7.00

VEHICLE/EQUIPMENT INSPECTION & CHECKLIST

VEHICLE/EQUIPMENT #: 115

OPERATOR	A. Timbers	A. Timbers	A. Timbers	A. Timbers	A. Timbers	A. Timbers
DATE/TIME	3-19-18	3-20-18	3-21-18	3-22-18	3-23-18	
HOURS/MILEAGE	22806.7	22462.5	22545.0	22617.4	22704.	
HORN/ALARM	/	/	/	/	/	/
HOSES/BOLTS	/	/	/	/	/	/
TRACK/TIRES	/	/	/	/	/	/
ATTACHMENTS	/	/	/	/	/	/
OIL/GREASE	/	/	/	/	/	/
BRAKES/LIGHTS	/	/	/	/	/	/
FUEL GAL./MILEAGE	20.5	20.5	28.1	28.1	28.1	28.1
SERVICE MILEAGE	22490	22490	22490	22490	22490	22490

Land Disturbance Permits

(Example)

PHENIX CITY, ALABAMA

LAND DISTURBING PERMIT

ENGINEERING DEPARTMENT

PHONE 334-448-2760

PERMIT NO. 17-02

Owner: Winton Yerby

Contractor: Hollyhand Realty, Inc.

Address: 19th Avenue Phenix City, AL 36867

PERMIT ISSUANCE FOR:

Hidden Hills Trace Apartments

POST THIS CARD

NOTIFY ENGINEERING DEPARTMENT 48 HOURS

PRIOR TO COMMENCING WORK

APPROVED PLANS MUST BE RETAINED ON THE JOB SITE AND THIS CARD KEPT POSTED UNTIL FINAL INSPECTION HAS BEEN MADE.

THIS APPROVAL IN NO WAY RELIEVES THE PROPERTY OWNER, CONTRACTOR, ENGINEER OR OTHER AGENT OF HIS DAMAGE TO ADJACENT PROPERTIES AND LIABILITY RESULTING THERE FROM AND SHALL NOT CONSTITUTE AN ASSUMPTION OF LIABILITY BY THE CITY OF PHENIX CITY FOR DAMAGES CAUSED BY CONSTRUCTION AND/OR GRADING PERFORMED UNDER SAID PLANS AND PERMITS.

**DO NOT REMOVE OR DEFACE THIS CARD UNTIL
CONSTRUCTION IS COMPLETE**

**Notices of Non-Compliant
Construction Sites**

(Example)

PHENIX CITY

Alabama

DEPARTMENT OF
ENGINEERING / PUBLIC WORKS

Physical Address: 1206 7th Avenue
Phenix City, AL 36867

Mailing Address: P.O. Box 279
Phenix City, AL 36868

Ph: 334-448-2760 | Fx: 334-291-4848 | phenixcityal.us

DR. R. GRIFF GORDY
Councilmember At Large

STEVE BAILEY
Councilmember District 1

EDDIE N. LOWE
Mayor

DR. JOHNNIE C. ROBINSON, JR.
Councilmember District 2

ARTHUR L. DAY, JR.
Councilmember District 3

WALLACE B. HUNTER, City Manager
CHARLOTTE L. GOODRICH, City Clerk
ANGEL MOORE, P.E., City Engineer / Director of Public Works

VIA CERTIFIED MAIL

April 19, 2017

Mr. Jimmy Hall
Jackson, Hall & White, LLC
5120-A Warm Springs Road
Columbus, GA 31909

**Re: 2414 Ridgewood Drive
2416 Ridgewood Drive
Ridgewood Cove, Phase 1**

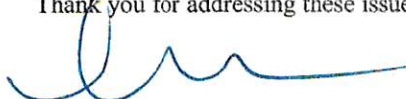
Dear Mr. Hall:

On April 19, 2017, a representative of the City of Phenix City conducted an inspection of the Erosion and Sediment Control Best Management Practices (BMP) for the above referenced project. During the site visit the following deficiencies were noted:

- 1) The Best Management Practices on Lot 4 and Lot 5 of Ridgewood Cove, Phase 1 have failed and need to be addressed.
- 2) The lots as described must be stabilized so that no sediment gets in the street or on any adjoining properties.
- 3) All rill and gully erosion must be addressed.
- 5) Repair all eroded areas on said lots.
- 6) Seed and mulch all bare and disturbed areas.
- 7) Maintain all silt fence on said lots.

These deficiencies must be corrected **within 72 hours** of the date of receipt of this notification letter. Failure to comply will result in the City of Phenix City issuing a citation. This is pursuant to the Erosion and Sedimentation Control Policy of the City of Phenix City, amended by ordinance 2007-07 and the Illicit Discharge Detection and Elimination Ordinance No. 2017-01. Copies of these policies are available on the City's website: www.phenixcityal.us. If you have any questions, please contact the Engineering Department at 334-448-2760.

Thank you for addressing these issues in a timely manner.



Angel Moore, P.E.
City Engineer

Cc: File



City of Phenix City Engineering Department

EROSION AND SEDIMENT CONTROL INSPECTION REPORT

DATE: 4-18-17 TIME 9:15 AM PROJECT/SUBDIVISION: Ridgewood Cove
WEATHER: Clear CITY PERSONNEL: R. Woods
REGULAR WEATHER EVENT CITIZEN COMPLAINT OTHER

DAILY REPORT OF ACTIVITIES

Received a call from a citizen regarding an erosion control problem at this subdivision. Lots 4 and 5 of Phase I has failed. Sediment has poured onto the street and gully erosion behind the curb. The silt fence on these lots need to be repaired and replaced. I have called the property owner and he said he did not own these lots. His name is on the GIS site as the owner so a 72 hour letter will need to be written and mailed today.

INSPECTION BY: Rebecca Woods

**Illicit Discharge Detection and Elimination
Notice of Violation**

(Example)

PHENIX CITY

Alabama

DEPARTMENT OF
ENGINEERING / PUBLIC WORKS

Physical Address: 1206 7th Avenue
Phenix City, AL 36867

Mailing Address: P.O. Box 279
Phenix City, AL 36868

Ph: 334-448-2760 | Fx: 334-291-4848 | phenixcityal.us

DR. R. GRIFF GORDY
Councilmember At Large

STEVE BAILEY
Councilmember District 1

EDDIE N. LOWE
Mayor

VICKEY CARTER JOHNSON
Councilmember District 2

ARTHUR L. DAY, JR.
Councilmember District 3

WALLACE B. HUNTER, City Manager
MELONY LEE, City Clerk
ANGEL MOORE, P.E., City Engineer
Director of Engineering / Director of Public Works

VIA HAND DELIVERY

February 7, 2018

Dixie Auto Sales
1615 Crawford Road
Phenix City, AL 36867

RE: Notice of Violation
Ordinance No. 2017-01 Chapter 10½ - STORMWATER MANAGEMENT
Dixie Auto Sales, 1615 Crawford Road Phenix City, AL 36867

Dear Property/ Business Owner:

The above named business is being issued a Notice of Violation of Ordinance No. 2017-01 Chapter 10 ½ - STORMWATER MANAGEMENT due to failure to provide proof of compliance with said ordinance. The above referenced business will not be able to renew its business license until such time that proof of compliance is confirmed.

A copy of the ordinance can be found online at <https://phenixcityal.us>.

If you require additional information or have questions or concerns, you may visit the Engineering Department located at 1206 7th Avenue, or to speak with a representative call 334-448-2760.

Sincerely,



Angel Moore, P.E.
City Engineer

Cc: File

Received by: 

Date: 2-8-18

Post Construction Inspection

(Example)

PHENIX CITY

Alabama

DEPARTMENT OF
ENGINEERING / PUBLIC WORKS

Physical Address: 1206 7th Avenue
Phenix City, AL 36867

Mailing Address: P.O. Box 279
Phenix City, AL 36868

Ph: 334-448-2760

Fx: 334-291-4848

phenixcityal.us

DR. R. GRIFF GORDY
Councilmember At Large

STEVE BAILEY
Councilmember District 1

EDDIE N. LOWE
Mayor

DR. JOHNNIE C. ROBINSON, JR.
Councilmember District 2

ARTHUR L. DAY, JR.
Councilmember District 3

WALLACE B. HUNTER, City Manager
CHARLOTTE L. GOODRICH, City Clerk
ANGEL MOORE, P.E., City Engineer / Director of Public Works

VIA CERTIFIED MAIL

May 2, 2017

Mr. Mark Anderson
Servant, LLC
P.O. Box 817
Smiths Station, AL 36877

Re: McClendon Place Detention Pond and Erosion Control

Dear Mr. Anderson:

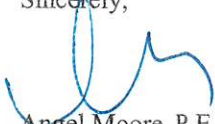
On May 2, 2017, a representative of the City of Phenix City Engineering Department finalized a routine Detention Pond Inspection for the above referenced site.

The following issues need to be addressed:

- 1) Remove obstructions and temporary sediment control measures from around and inside the Outlet Control Structure to ensure that the pond drains correctly.
- 2) Maintain swale at the north slope in a manner that directs storm water into the pond as reflected in the design plans. Drainage from the hill appears to be escaping the existing ditch and possibly contributing to flooding and sedimentation on residential lots.
- 3) Remove all trash, debris and accumulation of sediment from the pond.
- 4) All trees and bushes must be removed from the pond.
- 5) Maintain check dams and stabilize all storm water conveyances entering the pond.
- 6) Stabilize all bare areas along slopes to prevent erosion. Contact the Engineering office to discuss least invasive options prior to stabilizing slopes.
- 7) Seed and mulch all bare and disturbed areas.

This detention pond parcel falls under the Erosion and Sediment Control Policy of the City of Phenix City, amended by Ordinance No. 2007-07 and the Illicit Discharge Detection and Elimination Ordinance No. 2017-01. Copies of these policies are available on the City's website: www.phenixcityal.us. The City is requesting a plan of action within **15 days** of receipt of this notification letter. However, failure to comply will result in the City of Phenix City issuing a citation. If you have any questions, you may contact the Engineering Department at 334-448-2760.

Sincerely,



Angel Moore, P.E.
City Engineer

Cc: File



City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE: McLENDON PLACE DATE: 4-10-17 TIME: 10:15 AM
DATE OF LAST INSPECTION: 5-22-15 DESIGN DATA ON FILE: Y ___ N ___
MAINTAINED BY: Warr
PHOTOGRAHS TAKEN: Y N ___ NUMBER OF PONDS ONSITE: 1

ITEMS INSPECTED

VEGETATIVE COVER: Bare Areas on Slope. Swale has trees and tall growth

SEDIMENT: basin holds water and I couldn't tell at the outlet. Sediment run off down the swale.

DEBRIS: yes. Trash and household debris

FENCING: Not one around the pond

INLETS: Needs cleaning out.

EMERGENCY SPILLWAY: Partially Blocked. Needs cleaning out.

COMMENTS/CORRECTIVE ACTION NEEDED: Temp. Sediment trap is closed and needs repair. Basin is holding water.

Sediment needs to be removed along swale and checkdams need repair. Vegetation needed in bare areas and on slopes

Remove all trees bushes inside the basin. Remove trash & debris. Cut vegetation to 6".

INSPECTED BY: Rebecca Hubbard

TITLE: Erosion Control Coordinator

Action Center

(Example)

Rebecca Woods

From: Do Not Reply
Sent: Thursday, February 22, 2018 11:38 AM
To: Kathy Jo Davis; Rebecca Woods
Subject: Action Center Request "Erosion Control"

From: Lenise Little
Subject: Action Center Request

Message Body:

Nature of Problem: Erosion Control

Description of Problem: I live at 2418 Ridgewood Dr. and the lot next to me has a drainage problem and has sand running in the street. I need to know who is responsible for cleaning up my driveway and in the street in front of my house. 281-910-2868

Location: 2418 Ridgewood Dr. Phenix City Al

Contact Information

Name: Lenise Little
Email: mrslittle@att.net
Phone Number: 2819102868

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This email was sent from the Action Center on Phenix City, Alabama's official website (<https://phenixcityal.us>)

Water Monitoring

ALABAMA WATER WATCH

SAMPLING SITE DATA

Sampling Sites: Remember the general factors to consider when selecting a water monitoring site: to be safe, convenient and accessible, to have legal access and to be strategic. Optimal water monitoring sites are those that provide the best information to satisfy objectives with the least amount of effort. Choose a site that is not too difficult or dangerous to access and is strategically located to be tested in an efficient manner. It is essential to know the precise location of a monitoring site for full use of the data. Please carefully describe your site information, and submit this form with your first set of data taken at the site.

Monitor(s): Rebecca Woods, Jimmy Cook, Paul Chastain

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Holland Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.


Downstream of bridge at Lakewood Drive

Latitude: 32.496992° **Longitude** -85.033989°

*****Do not write below this line. AWW Office use only.*****

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.

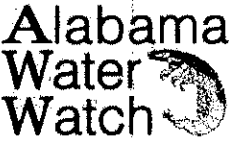
	Alabama Water Watch 559 Devall Drive Auburn, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org
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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 3/28/2018 Sample Time: 9:00 AM AWW Site Code: 03015011
 Watershed: Chattahoochee Waterbody: Holland Creek County & State: Russell
 Sampling site location: Downstream of bridge at Lakewood Drive

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>16</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>14.0</u> °C	Avoid touching thermometer bulb.
pH	<u>7.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>8.2</u> ppm Rep 2: <u>8.6</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>8.4</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>5</u> # drops x 5 = <u>25</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L	
Turbidity	<u>0</u> # 0.5 mL x 5 (50mL) = <u>0</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature. _____		
Monitor signature		
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 12/27/2017 Sample Time: 9:50 AM AWW Site Code: 03015011
 Watershed: Chattahoochee Waterbody: Holland Creek County & State: Russell
 Sampling site location: Downstream of bridge at Lakewood Drive

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition:	<input checked="" type="radio"/> Adequate Depth	<input type="radio"/> Inadequate Depth	<input type="radio"/> Dry	<input type="radio"/> No Access
Tidally influenced rivers:	<input type="checkbox"/> Rising Tide	<input type="checkbox"/> Falling Tide	<input type="checkbox"/> Uncertain	<input checked="" type="checkbox"/> No Applicable
Variable	Value	Comments		
Air Temperature	<u>9</u> °C	Measure air temperature before water temperature.		
Water Temperature	<u>10.0</u> °C	Avoid touching thermometer bulb.		
pH	<u>6.5</u> Standard international units	Record to nearest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>8.8</u> ppm Rep 2: <u>9.2</u> ppm	Make sure two readings are within 0.6 ppm.		
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.		
% Oxygen Saturation	<u>9</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.		
Total Alkalinity	<u>5</u> # drops x 5 = <u>25</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.		
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L			
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.		
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.		
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use		
Test site established for ADEM Permit ALR040019.				
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.		
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.				
<input type="checkbox"/> Check for electronic signature. _____				
Monitor signature _____				
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124		Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org	

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone No: (334) 448-2769
 Sample Date: 9/28/2017 Sample Time: 9:20 AM AWW Site Code: 03015011
 Watershed: Chattahoochee Waterbody: Holland Creek County & State: Russell
 Sampling site location: Downstream of bridge at Lakewood Drive

(Notify the AWW office about any changes in sampling site location.)

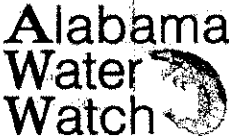
Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>21.0</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>22.5</u> °C	Avoid touching thermometer bulb.
pH	<u>6.5</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>6.2</u> ppm Rep 2: <u>6.6</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>6.4</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>8</u> # drops x 5 = <u>40</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>5</u> # drops x 10 = <u>50</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU # 0.5 mL x 10 (25mL) <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature.		Monitor signature
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 6/27/2017 Sample Time: 9:05 AM AWW Site Code: 03015011
 Watershed: Chattahoochee Waterbody: Holland Creek County & State: Russell
 Sampling site location: Downstream of bridge at Lakewood Drive

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition:	<input checked="" type="radio"/> Adequate Depth	<input type="radio"/> Inadequate Depth	<input type="radio"/> Dry	<input type="radio"/> No Access
Tidally influenced rivers:	<input type="checkbox"/> Rising Tide	<input type="checkbox"/> Falling Tide	<input type="checkbox"/> Uncertain	<input checked="" type="checkbox"/> No Applicable
Variable	Value	Comments		
Air Temperature	<u>21.5</u> °C	Measure air temperature before water temperature.		
Water Temperature	<u>23.0</u> °C	Avoid touching thermometer bulb.		
pH	<u>7.0</u> Standard international units	Record to nearest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>6.4</u> ppm Rep 2: <u>6.8</u> ppm	Make sure two readings are within 0.6 ppm.		
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.		
% Oxygen Saturation	<u>6.6</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.		
Total Alkalinity	<u>8</u> # drops x 5 = <u>40</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.		
Total Hardness	<u>4</u> # drops x 10 = <u>40</u> mg/L			
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.		
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.		
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.				AWW Office Use
Test site established for ADEM Permit ALR040019.				
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.		YSI Meter data, Nitrates, Phosphate, etc.	
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.				
<input type="checkbox"/> Check for electronic signature. _____				
Monitor signature				
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124		Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org	

ALABAMA WATER WATCH

SAMPLING SITE DATA

Sampling Sites: Remember the general factors to consider when selecting a water monitoring site: to be safe, convenient and accessible, to have legal access and to be strategic. Optimal water monitoring sites are those that provide the best information to satisfy objectives with the least amount of effort. Choose a site that is not too difficult or dangerous to access and is strategically located to be tested in an efficient manner. It is essential to know the precise location of a monitoring site for full use of the data. Please carefully describe your site information, and submit this form with your first set of data taken at the site.

Monitor(s): Rebecca Woods, Jimmy Cook, Paul Chastain

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Holland "Mill" Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.

Behind Public Works Shop off Broad Street.

Latitude: 32.467588° **Longitude** -85.002205°

*****Do not write below this line. AWW Office use only.*****

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.



Alabama Water Watch
559 Devall Drive
Auburn, AL 36849-5124


Toll Free: 1-888-844-4785
Email: awwprog@auburn.edu
Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 3/28/2018 Sample Time: 10:40 AM AWW Site Code: 03020004
 Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell
 Sampling site location: Behind Public Works Shop off Broad Street.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>16.5</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>15.0</u> °C	Avoid touching thermometer bulb.
pH	<u>7.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>9.2</u> ppm Rep 2: <u>9.0</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>9.1</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>5</u> # drops x 5 = <u>25</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature. _____		Monitor signature _____
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 12/27/2017 Sample Time: 8:45 AM AWW Site Code: 03020004
 Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell
 Sampling site location: Behind Public Works Shop off Broad Street.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>9</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>10.0</u> °C	Avoid touching thermometer bulb.
pH	<u>7.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>9.8</u> ppm Rep 2: <u>9.6</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>9.7</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>5</u> # drops x 5 = <u>25</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU # 0.5 mL x 10 (25mL) <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature.		Monitor signature
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 9/28/2017 Sample Time: 8:15 AM AWW Site Code: 03020004
 Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell
 Sampling site location: Behind Public Works Shop off Broad Street.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>20.5</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>22.0</u> °C	Avoid touching thermometer bulb.
pH	<u>7.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>6.8</u> ppm Rep 2: <u>7.0</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>6.9</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>10</u> # drops x 5 = <u>50</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>5</u> # drops x 10 = <u>50</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature.		
		Monitor signature
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 6/27/2017 Sample Time: 11:20 AM AWW Site Code: 03020004
 Watershed: Chattahoochee Waterbody: Holland "Mill" Creek County & State: Russell
 Sampling site location: Behind Public Works Shop off Broad Street.

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	22.5 °C	Measure air temperature before water temperature.
Water Temperature	23.0 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>7.6</u> ppm Rep 2: <u>7.4</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>7.5</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>8</u> # drops x 5 = <u>40</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>4</u> # drops x 10 = <u>40</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques. <input type="checkbox"/> Check for electronic signature. _____		
		Monitor signature
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

SAMPLING SITE DATA

Sampling Sites: Remember the general factors to consider when selecting a water monitoring site: to be safe, convenient and accessible, to have legal access and to be strategic. Optimal water monitoring sites are those that provide the best information to satisfy objectives with the least amount of effort. Choose a site that is not too difficult or dangerous to access and is strategically located to be tested in an efficient manner. It is essential to know the precise location of a monitoring site for full use of the data. Please carefully describe your site information, and submit this form with your first set of data taken at the site.

Monitor(s): Rebecca Woods, Jimmy Cook, Paul Chastain

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Mill Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.

In close proximity to where Mill Creek enters the Phenix City MS4

Latitude: 32.488050° **Longitude** -85.060822°

*****Do not write below this line. AWW Office use only.*****

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.



Alabama Water Watch
559 Devall Drive
Auburn, AL 36849-5124


Toll Free: 1-888-844-4785
Email: awwprog@auburn.edu
Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 3/28/2018 Sample Time: 10:00 AM AWW Site Code: 03020001
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to where Mill Creek enters the Phenix City MS4.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition:	<input checked="" type="radio"/> Adequate Depth	<input type="radio"/> Inadequate Depth	<input type="radio"/> Dry	<input type="radio"/> No Access
Tidally influenced rivers:	<input type="checkbox"/> Rising Tide	<input type="checkbox"/> Falling Tide	<input type="checkbox"/> Uncertain	<input checked="" type="checkbox"/> No Applicable
Variable	Value	Comments		
Air Temperature	<u>16.5</u> °C	Measure air temperature before water temperature.		
Water Temperature	<u>14.5</u> °C	Avoid touching thermometer bulb.		
pH	<u>6.5</u> Standard international units	Record to nearest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>7.2</u> ppm Rep 2: <u>7.2</u> ppm	Make sure two readings are within 0.6 ppm.		
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.		
% Oxygen Saturation	<u>7.2</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.		
Total Alkalinity	<u>5</u> # drops x 5 = <u>25</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.		
Total Hardness	<u>2</u> # drops x 10 = <u>20</u> mg/L			
Turbidity	<u>2</u> # 0.5 mL x 5 (50mL) = <u>10</u> JTU # 0.5 mL x 10 (25mL) <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.		
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.		
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use		
Test site established for ADEM Permit ALR040019.				
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.		
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.				
<input type="checkbox"/> Check for electronic signature. _____				
Monitor signature				
	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124		Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org	

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 12/27/2017 Sample Time: 11:30 AM AWW Site Code: 03020001
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to where Mill Creek enters the Phenix City MS4.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>9.5</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>9.5</u> °C	Avoid touching thermometer bulb.
pH	<u>6.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>8.4</u> ppm Rep 2: <u>8.6</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>8.5</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>6</u> # drops x 5 = <u>30</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature.		Monitor signature
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 9/28/2017 Sample Time: 9:40 AM AWW Site Code: 03020001
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to where Mill Creek enters the Phenix City MS4.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>21.5</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>22.5</u> °C	Avoid touching thermometer bulb.
pH	<u>6.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>2.8</u> ppm Rep 2: <u>2.6</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>2.7</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>9</u> # drops x 5 = <u>45</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>4</u> # drops x 10 = <u>40</u> mg/L	
Turbidity	<u>4</u> # 0.5 mL x 5 (50mL) = <u>20</u> JTU # 0.5 mL x 10 (25mL) <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature. _____		
Monitor signature		
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 6/27/2017 Sample Time: 10:20 AM AWW Site Code: 03020001
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to where Mill Creek enters the Phenix City MS4.

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>25</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>22.0</u> °C	Avoid touching thermometer bulb.
pH	<u>6.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>3.8</u> ppm Rep 2: <u>4.0</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>3.9</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>6</u> # drops x 5 = <u>30</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L	
Turbidity	<u>3</u> # 0.5 mL x 5 (50mL) = <u>15</u> JTU # 0.5 mL x 10 (25mL) <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature. _____		
Monitor signature		
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

SAMPLING SITE DATA

Sampling Sites: Remember the general factors to consider when selecting a water monitoring site: to be safe, convenient and accessible, to have legal access and to be strategic. Optimal water monitoring sites are those that provide the best information to satisfy objectives with the least amount of effort. Choose a site that is not too difficult or dangerous to access and is strategically located to be tested in an efficient manner. It is essential to know the precise location of a monitoring site for full use of the data. Please carefully describe your site information, and submit this form with your first set of data taken at the site.

Monitor(s): Rebecca Woods, Jimmy Cook, Paul Chastain

Contact Phone Number: 334-448-2760

AWW Group Affiliation (e.g. Little River Watch) Phenix City Engineering Department

Waterbody: Mill Creek

Watershed: Chattahoochee River

County and State Where Site Is Located: Russell County, Alabama

Site Location Description: Be very detailed. Include information such as the name or number of the nearest road. Indicate if it is upstream or downstream of a bridge, etc. Please submit a map, a photo (optional) and a geo-reference. Call the AWW Office for assistance.


In close proximity to the point that Mill Creek discharges to Holland Creek

Latitude: 32.488556° **Longitude** -85.030772°

*****Do not write below this line. AWW Office use only.*****

AWW Site Code Number* _____ **HUC12 Number** _____

* An 8-digit number will be assigned by the Alabama Water Watch office when the above information is submitted along with the first water monitoring data form. This Site Code is based on the watershed, group and specific location of the site.


	Alabama Water Watch 559 Devall Drive Auburn, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org
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ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 3/28/2018 Sample Time: 9:30 AM AWW Site Code: 03020005
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to the point that Mill Creek discharges to Holland Creek.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	16.5 °C	Measure air temperature before water temperature.
Water Temperature	14.5 °C	Avoid touching thermometer bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>8.8</u> ppm Rep 2: <u>8.6</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>8.7</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>5</u> # drops x 5 = <u>25</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature. _____		Monitor signature
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 12/27/2017 Sample Time: 10:45 AM AWW Site Code: 03020005
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to the point that Mill Creek discharges to Holland Creek.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>9.5</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>10.0</u> °C	Avoid touching thermometer bulb.
pH	<u>6.5</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>9.6</u> ppm Rep 2: <u>9.8</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>9.7</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>5</u> # drops x 5 = <u>25</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>3</u> # drops x 10 = <u>30</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature. _____		
Monitor signature		
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 9/28/2017 Sample Time: 10:10 AM AWW Site Code: 03020005
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to the point that Mill Creek discharges to Holland Creek.

(Notify the AWW office about any changes in sampling site location.)


Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>21</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>22.5</u> °C	Avoid touching thermometer bulb.
pH	<u>7.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>6.8</u> ppm Rep 2: <u>7.2</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>7</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>9</u> # drops x 5 = <u>45</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>4</u> # drops x 10 = <u>40</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) = <u>0</u> JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature.		
Monitor signature		
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: Phenix City Engineering Department online
 Collector(s): Rebecca Woods, Jimmy Cook, Paul Chastain Address: 1206 7th Avenue
 City: Phenix City State: AL Zip: 36868 Phone N°: (334) 448-2769
 Sample Date: 6/27/2017 Sample Time: 9:50 AM AWW Site Code: 03020005
 Watershed: Chattahoochee Waterbody: Mill Creek County & State: Russell
 Sampling site location: In close proximity to the point that Mill Creek discharges to Holland Creek.

(Notify the AWW office about any changes in sampling site location.)

Waterbody condition: <input checked="" type="radio"/> Adequate Depth <input type="radio"/> Inadequate Depth <input type="radio"/> Dry <input type="radio"/> No Access		
Tidally influenced rivers: <input type="checkbox"/> Rising Tide <input type="checkbox"/> Falling Tide <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> No Applicable		
Variable	Value	Comments
Air Temperature	<u>21</u> °C	Measure air temperature before water temperature.
Water Temperature	<u>22.0</u> °C	Avoid touching thermometer bulb.
pH	<u>7.0</u> Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>6.8</u> ppm Rep 2: <u>7.2</u> ppm	Make sure two readings are within 0.6 ppm.
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	<u>7</u> Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	<u>9</u> # drops x 5 = <u>45</u> mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	<u>4</u> # drops x 10 = <u>40</u> mg/L	
Turbidity	<u>1</u> # 0.5 mL x 5 (50mL) = <u>5</u> JTU <u>0</u> # 0.5 mL x 10 (25mL) JTU	Use bottom line only if sample volume used was 25 mL. Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample.
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.
Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.		AWW Office Use
Test site established for ADEM Permit ALR040019.		
Other Chemistry Tests	Yes, Auburn Environmental is providing our chemical lab testing.	YSI Meter data, Nitrates, Phosphate, etc.
I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the Comments section were obtained using AWW techniques.		
<input type="checkbox"/> Check for electronic signature.		Monitor signature
 2013	Alabama Water Watch 559 Devall Dr. Auburn University, AL 36849-5124	Toll Free: 1-888-844-4785 Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1206 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 28 MAR 18/0900
SAMPLE # 136442/136443/136444/136445

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 - HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
COD	2.0 mg/l	SM5210B	AB	03-29-18	1730
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	TM	03-29-18	1509
TKN	<1.00 mg/l	A4500-NH3-D	CXS	04-03-18	1124
NITRATE+NITRITE	<2.50 mg/l	300.0	TM	04-02-18	1001
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	04-03-18	1257

SAMPLE DATE/TIME: 28 MAR 18/1040
SAMPLE # 136446/136447/136448/136449

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
COD	3.8 mg/l	SM5210B	AB	03-29-18	1730
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	TM	03-29-18	1535
TKN	<1.00 mg/l	A4500-NH3-D	CXS	04-03-18	1127
NITRATE+NITRITE	<2.50 mg/l	300.0	TM	04-02-18	1001
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	04-03-18	1257

SAMPLE DATE/TIME: 28 MAR 18/1000
SAMPLE # 136450/136451/136452/136453

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
COD	3.2 mg/l	SM5210B	AB	03-29-18	1730
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	TM	03-29-18	1600
TKN	<1.00 mg/l	A4500-NH3-D	JEB	04-03-18	1102
NITRATE+NITRITE	<2.50 mg/l	300.0	TM	04-02-18	1001
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	04-03-18	1257

SAMPLE DATE/TIME: 28 MAR 18/0930
SAMPLE # 136454/136455/136456/136457

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
COD	3.3 mg/l	SM5210B	AB	03-29-18	1730
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	TM	03-29-18	1626
TKN	<1.00 mg/l	A4500-NH3-D	JEB	04-03-18	1102
NITRATE+NITRITE	<2.50 mg/l	300.0	TM	04-02-18	1001
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	04-03-18	1257

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 19TH EDITION, 1998.
EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:



THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY: 

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
 1206 7TH AVENUE
 PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 27 DEC 17/0920
 SAMPLE # 135732/135373/135374/135375

SAMPLE TYPE: CREEK SAMPLE
 LOCATION: 1 - HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	4.2 mg/l	SM5210B	AB	12-28-17	1720
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	12-28-17	1911
TKN	0.401 mg/l	A4500-NH3-D	AJT	01-08-18	1358
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	01-02-18	0948
TOTAL PHOSPHORUS	0.0530 mg/l	SM4500-P-E	MS	01-03-18	1228

SAMPLE DATE/TIME: 27 DEC 17/0815
 SAMPLE # 135736/135737/135738/135739

SAMPLE TYPE: CREEK SAMPLE
 LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	5.6 mg/l	SM5210B	AB	12-28-17	1720
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	12-28-17	2309
TKN	0.413 mg/l	A4500-NH3-D	AJT	01-08-18	1358
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	01-02-18	0948
TOTAL PHOSPHORUS	0.115 mg/l	SM4500-P-E	MS	01-03-18	1228

SAMPLE DATE/TIME: 27 DEC 17/1010
 SAMPLE # 135740/135741/135742/135743

SAMPLE TYPE: CREEK SAMPLE
 LOCATION: 3 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.8 mg/l	SM5210B	AB	12-28-17	1720
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	12-28-17	2343
TKN	0.598 mg/l	A4500-NH3-D	AJT	01-08-18	1358
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	01-02-18	0948
TOTAL PHOSPHORUS	0.0680 mg/l	SM4500-P-E	MS	01-03-18	1228

SAMPLE DATE/TIME: 27 DEC 17/0940
 SAMPLE # 135744/135745/135746/135747

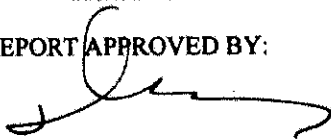
SAMPLE TYPE: CREEK SAMPLE
 LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	6.4 mg/l	SM5210B	AB	12-28-17	1720
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	12-28-17	2343
TKN	0.454 mg/l	A4500-NH3-D	AJT	01-08-18	1358
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	01-02-18	0948
TOTAL PHOSPHORUS	0.0450 mg/l	SM4500-P-E	MS	01-03-18	1228

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 20TH EDITION, 1998.
 EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1983.
 RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:



THOMAS BRANTLY, JR
 LABORATORY MANAGER

REVIEWED BY: 

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1206 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 28 SEP 17/0920
SAMPLE # 134976/134977/134978/134978

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 - HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.8 mg/l	SM5210B	AB	09-29-17	1910
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	09-30-17	1417
TKN	0.592 mg/l	A4500-NH3-D	AJT	10-10-17	1531
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	10-09-17	1226
TOTAL PHOSPHORUS	1.09 mg/l	SM4500-P-E	MS	10-10-17	1354

SAMPLE DATE/TIME: 28 SEP 17/0815
SAMPLE # 134980/134981/134982/134983

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.3 mg/l	SM5210B	AB	09-29-17	1910
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	09-30-17	1442
TKN	0.397 mg/l	A4500-NH3-D	AJT	10-10-17	1531
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	10-09-17	1251
TOTAL PHOSPHORUS	2.80 mg/l	SM4500-P-E	MS	10-10-17	1354

SAMPLE DATE/TIME: 28 SEP 17/1010
SAMPLE # 134984/134985/134986/134987

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	5.8 mg/l	SM5210B	AB	09-29-17	1910
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	09-30-17	1507
TKN	0.587 mg/l	A4500-NH3-D	AJT	10-10-17	1253
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	10-09-17	1316
TOTAL PHOSPHORUS	2.25 mg/l	SM4500-P-E	MS	10-10-17	1354

SAMPLE DATE/TIME: 28 SEP 17/0940
SAMPLE # 134988/134989/134990/134991

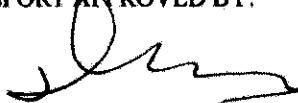
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.3 mg/l	SM5210B	AB	09-29-17	1910
ORTHOPHOSPHATE	<0.500 mg/l	E300.0	JDG	09-30-17	1533
TKN	0.397 mg/l	A4500-NH3-D	AJT	10-10-17	1531
NITRATE+NITRITE	<2.50 mg/l	300.0	JDG	10-09-17	1341
TOTAL PHOSPHORUS	1.59 mg/l	SM4500-P-E	MS	10-10-17	1354

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 20TH EDITION, 1998.
EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1981.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:



THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY: b

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1206 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 27 JUN 17/0905
SAMPLE # 134084/134085/134086/134087

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 - HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.6 mg/l	SM5210B	AB	06-28-17	1915
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	SG	07-06-17	2001
TKN	0.469 mg/l	A4500-NH3-D	AJT	07-06-17	1112
NITRATE+NITRITE	<0.500 mg/l	300.0	SG	07-12-17	2032
TOTAL PHOSPHORUS	0.0610 mg/l	SM4500-P-E	MS	07-10-17	1052

SAMPLE DATE/TIME: 27 JUN 17/0940
SAMPLE # 134088/134089/134090/134091

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.7 mg/l	SM5210B	AB	06-28-17	1915
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	SG	07-06-17	2030
TKN	1.01 mg/l	A4500-NH3-D	AJT	07-10-17	1253
NITRATE+NITRITE	<0.500 mg/l	300.0	SG	07-12-17	2101
TOTAL PHOSPHORUS	0.0320 mg/l	SM4500-P-E	MS	07-10-17	1052

SAMPLE DATE/TIME: 27 JUN 17/1030
SAMPLE # 134092/134093/134094/134095

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.0 mg/l	SM5210B	AB	06-28-17	1915
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	SG	07-06-17	2059
TKN	0.668 mg/l	A4500-NH3-D	AJT	07-10-17	1253
NITRATE+NITRITE	<0.500 mg/l	300.0	SG	07-12-17	2130
TOTAL PHOSPHORUS	0.0610 mg/l	SM4500-P-E	MS	07-10-17	1052

SAMPLE DATE/TIME: 27 JUN 17/1120
SAMPLE # 134096/134097/134098/134099

SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.1 mg/l	SM5210B	AB	06-28-17	1915
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	SG	07-06-17	2128
TKN	0.571 mg/l	A4500-NH3-D	AJT	07-10-17	1253
NITRATE+NITRITE	<0.500 mg/l	300.0	SG	07-12-17	2159
TOTAL PHOSPHORUS	0.0400 mg/l	SM4500-P-E	MS	07-10-17	1052

SAMPLES ANALYZED ACCORDING TO:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 19TH EDITION, 1998.
EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, 600/4-79-020 MARCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:



THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY: 



A program dedicated to developing citizen volunteer monitoring of Alabama's lakes, streams and coasts.

Dear Rebecca Woods,

Monday, May 15, 2017

Congratulations, you have officially completed AWW's Water Chemistry Recertification workshop.

We want to welcome you into our statewide network of water testers and mention some of the benefits. As a certified Alabama Water Watch monitor you to have access to:

- Online data entry with real-time graphs for water data
- Technical support and Quality Assurance for water monitoring
- Educational Resources and publications
- Web-based tools for data analysis and maps with location of groups and sites
- Data Interpretation Sessions

On selecting a monitoring site, please be sure it is safe, legal and convenient to sample on a regular basis. It's better to have lots of data from one site than little data from lots of sites. If you are part of a group, it's easier to strategize and make your plan for monitoring. Please keep in mind that if you are under 16 years old, you must monitor with a certified adult monitor.

If you provided us with an email address, your name has been added to our AWW listserv. AWW will keep you updated with periodic messages of statewide importance. You may easily unsubscribe or resubscribe as you wish.

You may contact Sydney Smith at 334-703-2658 (srs0029@auburn.edu) for further assistance. You are also welcome to contact AWW personnel at our Auburn office using information provided at the bottom of this letter.

Thank you if you joined the AWW Association at the workshop, and if you didn't, please consider joining and supporting the grassroots water monitors of Alabama.

You are always welcome to call our office, send an email or visit us in person. We want to help you reach your monitoring goals. Thank you for attending the workshop and we look forward to receiving your data as well as getting to know you.

Sincerely,

Eric Reutebuch
Program Manager

Sergio S. Ruiz Córdova
Data Coordinator

Community-Based, Science-Based Watershed Stewardship through Citizen Volunteer Water Monitoring



AWW Program Office
559 DeVall • Dr. Auburn University, AL 36849

Alabama Water Watch Association
PO Box 3294 • Auburn, AL 36831

Phone: (888) 844-4785 • Email: info@alabamawaterwatch.org





A program dedicated to developing citizen volunteer monitoring of Alabama's lakes, streams and coasts.

Dear Benjamin Chastain,

Monday, May 15, 2017

Congratulations, you have officially completed AWW's Water Chemistry Recertification workshop.

We want to welcome you into our statewide network of water testers and mention some of the benefits. As a certified Alabama Water Watch monitor you to have access to:

- Online data entry with real-time graphs for water data
- Technical support and Quality Assurance for water monitoring
- Educational Resources and publications
- Web-based tools for data analysis and maps with location of groups and sites
- Data Interpretation Sessions

On selecting a monitoring site, please be sure it is safe, legal and convenient to sample on a regular basis. It's better to have lots of data from one site than little data from lots of sites. If you are part of a group, it's easier to strategize and make your plan for monitoring. Please keep in mind that if you are under 16 years old, you must monitor with a certified adult monitor.

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You may contact Sydney Smith at 334-703-2658 (srs0029@auburn.edu) for further assistance. You are also welcome to contact AWW personnel at our Auburn office using information provided at the bottom of this letter.

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You are always welcome to call our office, send an email or visit us in person. We want to help you reach your monitoring goals. Thank you for attending the workshop and we look forward to receiving your data as well as getting to know you.

Sincerely,

Eric Reutebuch
Program Manager

Sergio S. Ruiz Córdova
Data Coordinator

Community-Based, Science-Based Watershed Stewardship through Citizen Volunteer Water Monitoring



AWW Program Office
559 DeVall • Dr. Auburn University, AL 36849

Alabama Water Watch Association
PO Box 3294 • Auburn, AL 36831

Phone: (888) 844-4785 • Email: info@alabamawaterwatch.org



Alabama Water Watch

A program dedicated to developing citizen volunteer monitoring of Alabama's lakes, streams and coasts.

Dear Jimmy Cook,

Monday, May 15, 2017

Congratulations, you have officially completed AWW's Water Chemistry Recertification workshop.

We want to welcome you into our statewide network of water testers and mention some of the benefits. As a certified Alabama Water Watch monitor you to have access to:

- Online data entry with real-time graphs for water data
- Technical support and Quality Assurance for water monitoring
- Educational Resources and publications
- Web-based tools for data analysis and maps with location of groups and sites
- Data Interpretation Sessions

On selecting a monitoring site, please be sure it is safe, legal and convenient to sample on a regular basis. It's better to have lots of data from one site than little data from lots of sites. If you are part of a group, it's easier to strategize and make your plan for monitoring. Please keep in mind that if you are under 16 years old, you must monitor with a certified adult monitor.

If you provided us with an email address, your name has been added to our AWW listserv. AWW will keep you updated with periodic messages of statewide importance. You may easily unsubscribe or resubscribe as you wish.

You may contact Sydney Smith at 334-703-2658 (srs0029@auburn.edu) for further assistance. You are also welcome to contact AWW personnel at our Auburn office using information provided at the bottom of this letter.

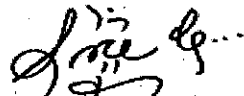
Thank you if you joined the AWW Association at the workshop, and if you didn't, please consider joining and supporting the grassroot water monitors of Alabama.

You are always welcome to call our office, send an email or visit us in person. We want to help you reach your monitoring goals. Thank you for attending the workshop and we look forward to receiving your data as well as getting to know you.

Sincerely,



Eric Reutebuch
Program Manager



Sergio S. Ruiz Córdova
Data Coordinator

Community-Based, Science-Based Watershed Stewardship through Citizen Volunteer Water Monitoring

extension
ALABAMA A&M & AUBURN UNIVERSITIES

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AUBURN UNIVERSITY
ALABAMA AGRICULTURAL
EXPERIMENT STATION
Water Resources Center

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Rainfall Data

Rainfall Totals for Phenix City 2017

January	9.9	in.
February	3.1	in.
March	1.8	in.
April	5.1	in.
May	5.5	in.
June	3.7	in.
July	8.2	in.
August	6.8	in.
September	3.5	in.
October	4.4	in.
November	1.4	in.
December	2.5	in.
Yearly Total	55.9	in.

Rainfall Totals for Phenix City 2018

January	1.5	in.
February	2.8	in.
March	3.2	in.
April	---	in.
May	---	in.
June	---	in.
July	---	in.
August	---	in.
September	---	in.
October	---	in.
November	---	in.
December	---	in.
Yearly Total	7.5	in.