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ARTHUR L. DAY, JR. Mayor Pro Tem / District 3

VIA ELECTRONIC SUBMITTAL

May 21, 2020

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

Re: 2019-2020 Annual Storm Water Report

Ms. Ashmore:

Please find attached the Storm Water 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, 2019 - March 31, 2020



Individual Phase II MS4 NPDES Permit No. ALR040019

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Individual Phase II MS4 NPDES Permit No. ALR040019

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 United States Census Bureau, the 2018 ACS 5-Year Population Estimate for Phenix City, Alabama is 36,641 with a population density of 1,320.39 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

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

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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 had previously identified an impaired stream within the City, and although Mill Creek has been removed from the Final 2018 Alabama 303(d) list, the City continues to perform water monitoring at this time and assess the condition of said stream. The following table summarizes the previously found impairments for Mill Creek.

Table 1-3: Waterbody Segments in the Urbanized Area Recently Removed from the Alabama 303(d) List

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 previous impairment was 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

ABAMP.

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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.

As stated above, Mill Creek has been removed from the 2018 Alabama 303(d) list. No other impaired streams are located within the Phenix City MS4.

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, 2019 through March 31, 2020 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.

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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 2019-2020 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
Engineering Department	Paul Chastain, Storm Water and Erosion Control Coordinator	334-448-2760	bchastain@phenixcityal.us

Questions concerning the 2019-2020 Annual Report should be directed to the Engineering Department.

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3.0 Program Evaluation

3.1 Major Accomplishments

3.1.1 Mill Creek Designated as 2019 Alabama Nonpoint Source Success Story

Nonpoint Source Success Stories recognize water bodies identified by their states as having achieved documented improvements in water quality. These success stories allow states the opportunity to highlight restoration efforts. In order to qualify, a water body must have been listed on the CWA section 303(d) list or on the Integrated Report (IR) as a Category 4 or 5 water body during the 1998/2000 listing cycle or subsequent years.

Mill Creek was removed from the 2018 Alabama 303(d) list, an accomplishment that 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. Mill Creek has been named a Nonpoint Source Success Story and is listed as such on the Environmental Protection Agency (EPA) website.

3.1.2 Increased Participation in Municipal Training

The City has an annual training program for municipal employees with a focus on pollution prevention, good housekeeping, illicit discharge identification, and other threats to the quality of storm water. A total of 76 employees of the City of Phenix City attended annual training this year held at the Martin Idle Hour Park Community Center. During the previous reporting period 29 employees attended municipal training sessions. This represents a 162% increase in participation for the 2019-2020 reporting period.

3.1.3 Progress in Identifying Priority Areas

During the 2019-2020 reporting period, the City increased efforts in identifying priority areas through the stream walking program and through the continued development of Illicit Discharge Potential (IDP) scores and calculations for each drainage basin. An Illicit Discharge Potential (IDP) Chart with scores for each delineated drainage basin has been included along with a list of Potential Generating Sites (PGS) from the EPA ECHO database. Maps showing drainage basins, city sanitary sewer, and the locations of Potential Generating Sites have also been included in this report. These maps are part of our GIS compendium and can be provided with more detail upon request. The City will continue to maintain these scores and will adjust as necessary for accuracy.

3.1.4 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 2019-2020 reporting period, 56 outfalls were identified and a dry weather screening was conducted at each outfall. No illicit discharges or connections were observed during screening.

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3.1.5 Annual Post Construction Inspection

Each year the City performs annual inspections on post construction controls to ensure that post construction BMPs are being maintained by the owners and are functioning as designed. Letters are then sent to the owner or responsible parties detailing any corrections or maintenance that will be needed. Follow up inspections are performed to ensure that items are addressed. This year annual inspections were made at 91 detention ponds.

3.1.6 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 4 monitoring locations along Mill Creek and Holland Creek.

During the 2019-2020 reporting period, the City also recorded storm water rainfalls for 24 hour rain events. 64.6" of rain was recorded for the year.

3.1.7 Purchase of Trucks

The Phenix City Engineering Department purchased two Ford F-150 trucks during the reporting period. One was purchased for primary use by the Storm Water and Erosion Control Coordinator and the other was purchased for primary use by the Inspector. These positions provide services that contribute to the Storm Water Program to include:

- Site inspections
- Storm water and erosion control inspections
- Post construction inspections
- Water monitoring
- Meetings with developers, engineers, contractors, and the public
- Investigations for residential concerns including those received through Action Center Request
- Various investigations into other issues concerning infrastructure, flooding, and storm water

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3.2 Overall Program Strengths/Weaknesses

The first strength of the City's Storm Water Management Program is the increased clarity provided with the adoption of the SWMPP and IDDE policies, and their relative ordinances, both approved in 2017. These policies have made both the goals of the storm water program, and the path to achieve these goals, more clear. The IDDE Ordinance and the Erosion and Sediment Control Policy have also established legal authority to more decisively regulate the control of pollutants and the permitting of land disturbances.

A second strength is the ability to adapt our program in a manner that allows for more stream lined and efficient practices. With each reporting period we are more able to identify areas within our program that need work and adjust our approach accordingly. This has become apparent in the growth of our Illicit Discharge Detection and Elimination Program and the increased proficiency of our annual training.

The main weakness of the City's SWMPP remains the lack of staff dedicated to the implementation of the program. The Engineering Department manages the Storm Water Management Program responsibilities and the MS4 Permit. The majority of the work is now handled by two people and unforeseen circumstances created a temporary absence in the Engineering Department during this reporting period. This resulted in a redistribution of duties for a large part of the reporting period and limited the resources available to the program. This absence has recently been reoccupied and a renewed focus has been placed on the advancement of the Storm Water Program.

A second challenge facing the program is the grey areas that exist in the maintenance of post construction BMPs. While the majority of our detention systems are being maintained by their owners, there are detention systems that have been allowed to return to ownership by the State and the City has had to take over maintenance of these ponds. We are also encountering ownership by limited liability corporations that have been dissolved since the completion of developments and other situations without definitive standard operating procedures. The City is currently working to develop policies and procedures to reduce these occurrences.

3.3 Future Direction of the Program

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

- The advancement of the Storm Water Management Program Plan
- The advancement of the Illicit Discharge Detection and Elimination Program
- 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
- Working towards the development and review of a new Public Works Manual



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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, Mayor

City of Phenix City, Alabama

Date

Date

Melony Lee, City dlerk

C1119

DHOUSE SPECIAL PROPERTY.

City of Phenix City, Alabama

Date

Wallace B. Hunter, City Manager

City of Phenix City, Alabama

THE CITY OF PHENIX CITY CONTROL MEASURE 1 - PUBLIC EDUCATION AND PUBLIC INVOLVEMENT Narrative Report

			Narrative Report			
ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	Storm Water Web Page: Maintain the Storm Water web page on the City's Website.	The City has updated and maintained the Storm Water web page on the City's website.	The City will continue maintaining and updating the Storm Water Webpage on the City's website.	https://phenixcityal.us/engineering- public-works/engineering/storm- water-management/	No proposed changes at this time.	Yes
2	Annual Report and SWMPP Availability: Provide the SWMPP and current Annual Report for public viewing on the City's website.	The City has posted the current copy of the SWMPP and the current copy of the 2019-2020 Annual Report on the City's webpage for viewing.	The City will continue to provide a copy of the current SWMPP and Annual Report for public viewing on the City's webpage.	https://phenixcityal.us/engineering- public-works/engineering/storm- water-management/	No proposed changes at this time.	Yes
3	Storm Water Educational Material: Develop and distribute educational materials to citizens and business owners by placement at City locations.	The City is currently distributing educational materials to citizens and business owners by placement at City locations. 80 brochures were distributed.	The City will continue looking for new educational materials to educate employees, citizens and business owners.	Copies of all education materials are available upon request.	No proposed changes at this time.	Yes
4	Help the Hooch: Promote and participate in the annual cleanup for the Chattahoochee River.	The City helped promote the Help the Hooch annual cleanup for the Chattahoochee River by advertising on the City's webpage and on City marquees. Public Works hauled trash and debris that was pulled out of the river from the event.	The City will continue advertising and participating in the Help the Hooch annual cleanup.	Amount of trash and debris are included in the Solid Waste quarterly report of volume. Copies of the quarterly report are available upon request.	No proposed changes at this time.	Yes
5	Riverwalk Cleanup: Cleanup and maintenance of the 1.1-mile Riverwalk structure.	The Parks and Recreation Department maintains the 1.1-mile Riverwalk structure.	The Parks and Recreation Department will continue maintaining the 1.1-mile Riverwalk structure.	Amount of trash and debris are recorded in the Solid Waste quarterly report of volume. Copies of the quarterly report are available upon request.	No proposed changes at this time.	Yes
6	Partnerships in Educational and Public Involvement Events: Partner with Auburn University, EPA, and ADEM to improve Mill Creek, distribute educational materials and promote events.	The City distributes educational material quarterly and promotes events on City marquees. Inspired by the accomplishments evident with the completion of the Mill Creek Project, the City is currently researching new opportunities and partnerships.	The City will look for new ways to help improve Mill Creek by distributing new educational material and continue to volunteer and promote events.	The City publishes newsletters giving helpful tips and ways to reduce pollution within the City's waterways.	No proposed changes at this time.	Yes

7	Recycling Center: Manage drop-off facilities at 1100 Airport Road and 709 12th Street	The City is currently managing both drop-off facilities. 92 tons of recyclables were reported for the 2019-2020 reporting period.	The City will continue managing the recycling drop-off locations. The City is currently investigating a Possible location for a 3 rd Recycling Center to promote and encourage more recycling.	https://phenixcityal.us/engineering- public-works/public-works- division/recycling-centers/	No proposed changes at this time.	Yes
8	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.	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.	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.	https://phenixcityal.us/action- center/ https://phenixcityal.us/engineering- public-works/engineering/storm- water-management/	No proposed changes at this time.	Yes

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	Identify Priority Areas: Evaluate the drainage basins and determine the Priority Areas for the reporting period.	The City is actively evaluating drainage areas to determine the Priority Areas.	The City will continue evaluating drainage areas to establish Priority Areas.	The City will report the current Illicit discharge potential for each drainage basin. The City will continue to update the drainage basin chart.	No proposed changes at this time.	In Progress
2	Outfall Identification: Implement a stream-walking program to identify outfalls and reevaluate known outfalls.	The City continues to implement The stream-walking program to Identify outfalls and re-evaluate any Known outfalls. 56 outfalls for 2019-2020. 3 miles (cumulative) walked for 2019-2020. 304 total outfalls located/identified since permit renewal.	The City will continue implementing a stream-walking program to identify outfalls and re-evaluate any known outfalls.	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.	No proposed changes at this time.	In Progress
3	Probable Outfall Verification: Add probable outfalls to the Storm Sewer System Map and label as unverified. Verify outfalls within 18 months.	The City receives as-built surveys of new developments and field verifies outfalls prior to acceptance into the City of Phenix City maintenance program. O probable outfalls. O outfalls verified.	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.	The City will report the number of probable outfalls that were verified during the reporting period.	No proposed changes at this time.	In Progress
4	Outfall Reconnaissance Inventory: Conduct dry weather monitoring of 15% of major outfalls in Priority Areas.	The City has located and inspected 56 outfalls. Dry weather monitoring activities may be combined with outfall verification as described in Activity 3	The City will continue dry weather monitoring and report the number outfalls inspected during the reporting period.	Outfall Reconnaissance Inventory Field Sheets will be available upon request.	No proposed changes at this time.	In Progress
5	Suspect Discharge Sampling: Field crews will collect samples of suspected illicit discharges for laboratory analysis.	0 suspect illicit discharges were investigated.	The City will continue sampling any suspected discharges observed during scheduled inspections.	If any suspect discharges are identified, the outfall will be sampled and the City will report the laboratory analysis results for the collected samples.	No proposed changes at this time.	In Progress
6	Outfall Ranking: Designate the inspected outfalls as having obvious, suspect, possible, or unlikely discharge potential based on data from each ORI Field Sheet.	56 outfalls were located and designated as having unlikely discharge potential.	The City will Continue to designate rankings of outfalls based on investigations, scheduled inspections and results from the ORI Field Sheet.	If any discharges are identified, a laboratory analysis will be available upon request.	No proposed changes at this time.	In Progress
7	Discharge Investigation: Illicit discharge investigations will be performed to determine the source of a discharge problem.	0 suspect discharges were identified and no investigations were performed.	The City will continue to investigate all illicit discharges and determine the source of the discharge problem.	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.	No proposed changes at this time.	In Progress

8	Corrective Action Record Keeping: Create a case log detailing pertinent information for each identified suspect illicit discharge or illicit connection.	The City is developing a case log detailing pertinent information for each identified illicit discharge or illicit connection. O reported illicit discharges. O reported corrective actions.	The City will maintain a case log for each identified illicit discharge or illicit connection and the corrected actions taken.	If any illicit discharges are reported, the City will report the number of confirmed corrective actions that were taken during the reporting period.	No proposed changes at this time.	In Progress
9	Update Storm Water System Map - Existing Features: Update the existing Storm Water System Map as new outfalls are identified and BMPs are added.	The City is currently updating it's existing Storm Water System Map as new outfalls are identified and as new BMPs are added.	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.	The City will provide a current copy of the Storm Water System Map each reporting period.	No proposed changes at this time.	In Progress
10	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.	The City is currently updating it's existing Storm Water System Map with proposed additions from asbuilt surveys submitted of new development features and conveyances. New outfalls are verified after construction is complete. 13 new construction plans were submitted to the City. 0 new outfalls were verified.	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.	The City will provide a current copy of the Storm Water System Map each reporting period.	No proposed changes at this time.	In Progress
11	Evaluate IDDE Ordinance: IDDE Ordinance Chapter 10 ½ Storm Water Management was approved on February 7, 2017 and will define illicit discharge and responsibility. Evaluate the effectiveness of the Ordinance each reporting period.	The City's IDDE Ordinance 10 ½ Storm Water Management was approved and adopted on February 7 th , 2017. This reporting period, the City had: 3 potential qualifying new businesses. 1 complaint received. 0 illicit discharges identified. 4 resolved potential violations. 0 repeat offenders 2 notice letters sent	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.	If any illicit discharges are reported, the City will report the number of confirmed corrective actions that were taken during the reporting period.	No proposed changes at this time.	Yes
12	Distribute Storm Water Educational Material: Distribute educational materials to the public, highlighting identification and reporting of potential illicit discharges.	The City is currently distributing Educational material to the public, highlighting identification and reporting of potential illicit discharges.	The City will continue distributing educational material to the public, highlighting identification and reporting of potential illicit discharges.	The City will provide copies of distributed educational material during the reporting period.	No proposed changes at this time.	Yes

13	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.	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. 0 Illicit discharge complaints were received.	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.	https://phenixcityal.us/action-center/ https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	No proposed changes at this time.	Yes
14	Municipal Training: Train City personnel on the identification of illicit discharges, procedures for reporting illicit discharges, and prevention of storm water pollution at facilities.	The City is implementing training material for the identification of illicit discharges, procedures for reporting illicit discharges, and prevention of storm water pollution at the City's facilities. 76 City employees attended Municipal training sessions during The 2019-2020 reporting period.	Municipal training for all facility employees will continue annually.	The City will keep attendance records and report the number of municipal workers trained during the reporting period. Attendance records are available upon request.	No proposed changes at this time.	Yes
15	Storm Water Monitoring Locations: Update existing Storm Water System Map with storm water monitoring locations.	The City has updated it's Storm Water System Map with the current storm water monitoring locations.	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.	The City will provide a Storm Water System Map showing the locations during the reporting period.	No proposed changes at this time.	Yes
16	Evaluation of Monitoring Data: Evaluate the collected monitoring data and make recommendations to add and/or modify monitoring points.	The City currently monitors four (4) locations along Mill Creek and Holland Creek. No abnormal data has been detected.	The City will continue to evaluate the effectiveness of the monitoring locations.	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.	No proposed changes at this time.	Yes
17	NPDES Industrial Permitting: Obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and report unpermitted facilities.	The City will evaluate and obtain information pertaining to permitted facilities and incorporate into the Storm Water System Map and report unpermitted facilities. Unpermitted facilities that require an NPDES permit will be reported to the Industrial Section of the ADEM in Montgomery, Alabama. 0 Unpermitted facilities were reported.	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. Any unpermitted facilities will be Reported to ADEM.	The City will provide the number of Unpermitted facilities reported to ADEM during the reporting period.	No proposed changes at this time.	Yes

THE CITY OF PHENIX CITY CONTROL MEASURE 3 - CONSTRUCTION SITE STORM WATER RUNOFF Narrative Report

	Narrative Report							
ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET		
1	Erosion and Sediment Control Ordinance: The City's Erosion and Sedimentation Control Policy gives authority for City to implement its Construction Site Storm Water Runoff Program. Evaluate the effectiveness of the Policy each reporting period.	The City is currently implementing and evaluating the effectiveness of it's Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007. 1 non-compliant construction site identified by the City. 1 enforcement action taken 0 sites reported to ADEM. 0 repeat offenders.	The City will continue to implement and evaluate the effectiveness of it's Construction Site Storm Water Runoff Program set forth by the Erosion and Sedimentation Control Policy, adopted in Ordinance 2007-07 dated February 21, 2007. 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.	The City has copies of non-Compliant letters available upon Request. https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	No proposed changes at this time.	Yes		
2	Sediment and Erosion Control Plan Review: Review Sediment and Erosion Control Plans for all permit applications.	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. 13 plans have been submitted. 13 plans have been reviewed. 6 plans have been approved. 0 plans have been denied. 13 plans that meet the requirements of the Alabama Construction General Permit.	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	Construction Site Inspection Program: Conduct inspections of qualifying construction sites within 60 days of initial disturbance, periodically during construction, and following stabilization.	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. A combined 602 inspection reports, directly concerning ESC or storm water issues, were created between all Engineering Dept. inspectors. 1 non-compliant construction sites identified by the City. 1 enforcement actions taken. 0 non-compliant construction sites are repeat offenders.	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 of an inspection conducted during the reporting period. The City has a list of construction sites and copies of inspection reports available upon request.	No proposed changes at this time.	Yes		

4	BMP Training Program: Conduct annual training for City inspectors and reviewers.	City personnel currently continue annual Qualified Credentialed Inspectors (QCIs) and storm water awareness refresher courses for personnel conducting BMP inspections. Paul Chastain (QCI #T0716), Bo Greene (QCI #T5719) Jimmy Cook (QCI #T6191) Richard Carlson (QCI#63899) QCI certifications were maintained through the approval annual refresher courses. Paul Chastain (CSI Certificate #8867) Has completed the requirements for Certified Stormwater Inspector	The City will continue annual Qualified Credentialed Inspectors (QCIs) and storm water awareness refresher courses for personnel conducting BMP inspections.	The City has provided copies of the QCI certificates and/or records of awareness training received during the reporting period.	No proposed changes at this time.	Yes
5	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.	The City currently provides a phone number and electronic forms on the City's webpage for the public to report: - Non-compliant construction sites - Illicit discharges - Impaired waters - Ordinance violations. 8 inquiries received. 8 complaints addressed. 7 complaints resolved.	The City will continue to provide a phone number and electronic forms on the City's webpage for the public to report: - Non-compliant construction sites - Illicit discharges - Impaired waters - Ordinance violations.	https://phenixcityal.us/action-center/ https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	No proposed changes at this time.	Yes
6	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.	The City will notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred. 0 non-compliant construction sites were reported to ADEM.	The City will continue to notify ADEM of any construction sites where a possible violation of the Clean Water Act has occurred.	No documents available at this time.	No proposed changes at this time.	Yes

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

	Narrative Report								
ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET			
1	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. Evaluate the effectiveness of the Policy each reporting period.	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. 13 plans have been submitted and include measures to reduce runoff volume.	The City is in the process of implementing and updating a Post Construction Site Storm Water Runoff Program.	A copy of the Erosion and Sediment Control Policy is available upon request, or it can be viewed on the City's Storm Water Webpage at: https://phenixcityal.us/engineering-public-works/engineering/storm-water-management/	The City will develop a separate Post-Construction Storm Water Ordinance	In Progress			
2	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. Evaluate the effectiveness of the Policy each reporting period.	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. 13 plans were submitted that include detailed maintenance procedures. 13 maintenance agreements reviewed. 13 plans with maintenance provisions approved. 0 plans with maintenance provisions denied. 0 enforcement actions taken.	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.	Copies of plans and agreements are available upon request.	No proposed changes at this time.	Yes			
3	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.	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.	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.	No documents available at this time.	No proposed changes at this time.	Yes			
4	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.	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. 13 plans were submitted for review.	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.	·	No proposed changes at this time.	Yes			

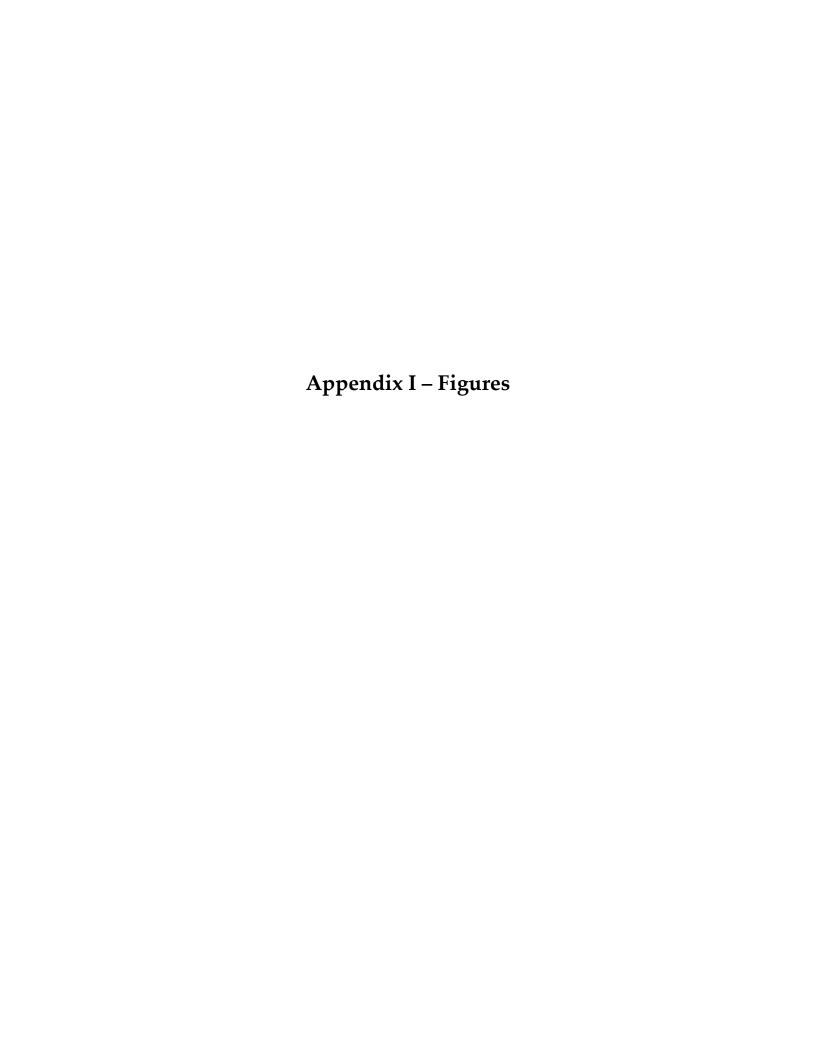
5	Post Construction Site Inspection Program: Inspect post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan. Annually inspect each site to confirm post-construction BMPs are functioning as designed. Evaluate the effectiveness of the inspection program.	Designated personnel currently inspects post-construction controls after stabilization is complete to confirm post-construction storm water measures/structures have been installed according to the submitted plan. 91 detention ponds were inspected. 4 new detention ponds were installed.	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.	The City will maintain inspection documentation for review upon request.	No proposed changes at this time.	Yes
6	Post-Construction Structural Controls Inventory: Update an inventory of post- construction structural controls including those owned by the City.	The City will compile an inventory of post-construction structural controls including those owned by the City.	The City will continue maintaining an inventory of post-construction structural controls including those owned by the City.	The City will maintain an inventory of post-construction structural controls including those owned by the City. Documents are available upon request.	No proposed changes at this time.	Yes

THE CITY OF PHENIX CITY CONTROL MEASURE 5 - POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Na	rrative	Report	

	Narrative Report								
ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET			
1	Municipal Facilities: Maintain a list of municipal facilities that have the potential to discharge pollutants through storm water runoff. Inspect facilities for good housekeeping practices.	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. O Deficiencies Noted	Continue monitoring the municipal facilities for good housekeeping and storm water pollution prevention through a municipal quarterly BMP inspection checklist.	The City has provided an example municipal quarterly BMP inspection checklist. Copies of municipal quarterly BMP inspection checklist are available upon request.	No proposed changes at this time.	Yes			
2	Employee Training: Training program for municipal employees that focuses on pollution prevention, good housekeeping, illicit discharge identification, and other threats to storm water quality.	The City developed training material for pollution prevention, good housekeeping, illicit discharge identification, and other threats to storm water quality. 76 City employees attended municipal training sessions during the 2019-2020 reporting period.	Municipal training will continue annually.	The City will keep attendance records and report the number of municipal workers trained during the reporting period. Attendance records are available upon request.	No proposed changes at this time.	Yes			
3	Vehicle Maintenance Program: Conduct routine inspections of municipal vehicles and equipment.	The City conducts routine inspections of municipal vehicles and equipment.	Continue routine inspections of municipal vehicles and equipment.	The City's inspections of municipal vehicles and equipment is logged through PubWorks and copies of inspections are available upon request.	No proposed changes at this time.	Yes			
4	Litter and Debris Pickup Policy: City Ordinance Section 12-5 provides curbside collection of limbs and debris on a weekly basis.	Per City Ordinance Section 12-5, The City is currently providing a curbside pickup of limbs and debris on a weekly basis. 2,687 tons of limbs and debris were reported for the 2019-2020 reporting period.	The City will continue providing a curbside pickup of limbs and debris on a weekly basis.	Copies of City's solid waste quarterly reports are available upon request. The City's Limb and Debris Pickup Policy can be reviewed at: https://phenixcityal.us/engineering-public-works/public-works-division/limbs-debris/	No proposed changes at this time.	Yes			
5	Large Item Pickup Policy: City Ordinance Section 12-5 provides curbside collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis.	The City is currently providing a curbside pickup collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis. The amount of curbside pickup is included in the solid waste quarterly report.	The City will continue providing a curbside pickup collection of miscellaneous metals, appliances, furniture, and yard waste on a weekly basis.	Copies of City's solid waste quarterly reports are available upon request. The City's Limb and Debris Pickup Policy can be reviewed at: https://phenixcityal.us/engineering-public-works/public-works-division/limbs-debris/	No proposed changes at this time.	Yes			

6	Litter, Floatables, and Debris - Recycling Program: Manage drop-off facilities at 1100 Airport Road and 709 12th Street. Manage tire removal program.	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 is provided on the website as well. 92 tons of recyclables were reported for the 2019-2020 reporting period. approximately 2,612 tires were removed during the reporting	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. The City will evaluate and consider the addition of a third recycling location.	Quarterly reports for recyclables are available upon request. https://phenixcityal.us/engineering-public-works/public-works-division/recycling-centers/	No proposed changes at this time.	Yes
		period.				



Outfall Number	Latitude	Longitude	Description	Stream
Outfall 1	32.520469	-85.066078	DITCH	HOLLAND CREEK
Outfall 2	32.510986	-85.049103	DITCH	HOLLAND CREEK
Outfall 3	32.510853	-85.049214	DITCH	HOLLAND CREEK
Outfall 4	32.501694	-85.038222	36" RCP	HOLLAND CREEK
Outfall 5	32.501858	-85.038172	18" RCP	HOLLAND CREEK
Outfall 6	32.502128	-85.038389	DITCH	HOLLAND CREEK
Outfall 7	32.490183	-84.998906	24" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 8	32.490228	-84.998919	FLUME	UNNAMED TRIBUTARY
Outfall 9	32.490203	-84.998822	FLUME	UNNAMED TRIBUTARY
Outfall 10	32.490983	-84.996614	24" RCP	CHATAHOOCHEE RIVER
Outfall 11	32.490522	-84.996544	18" CONCRETE PIPE	CHATAHOOCHEE RIVER
Outfall 12	32.490036	-85.000164	18" CMP	UNNAMED TRIBUTARY
Outfall 13	32.489203	-85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 14	32.489189	-85.001806	FLUME	UNNAMED TRIBUTARY
Outfall 15	32.489142	-85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 16	32.489181	-85.001625	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 17	32.489244	-85.001658	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 18	32.489158	-85.005019	18" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 19	32.489472	-85.006853	36" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 20	32.490567	-85.026297	(2) 30" RCP	HOLLAND CREEK
Outfall 21	32.513681	-85.027664	42" CMP	HOLLAND CREEK
Outfall 22	32.513683	-85.027600	DITCH	HOLLAND CREEK
Outfall 23	32.503319	-85.034314	DITCH	UNNAMED TRIBUTARY
Outfall 24	32.504250	-85.034106	DITCH	UNNAMED TRIBUTARY
Outfall 25	32.502442	-85.034425	FLUME	UNNAMED TRIBUTARY
Outfall 26	32.502306	-85.034417	FLUME	UNNAMED TRIBUTARY
Outfall 27	32.478350	-85.049522	24" RCP	MILL CREEK
Outfall 28	32.491567	-85.042697	DITCH	MILL CREEK
Outfall 29	32.490244	-85.037231	DITCH	MILL CREEK
Outfall 30	32.490050	-85.037203	FLUME	MILL CREEK
Outfall 31	32.490150	-85.037392	FLUME	MILL CREEK
Outfall 32	32.490358	-85.037378	FLUME	MILL CREEK
Outfall 33	32.491778	-85.033092	DITCH	HOLLAND CREEK

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

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

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

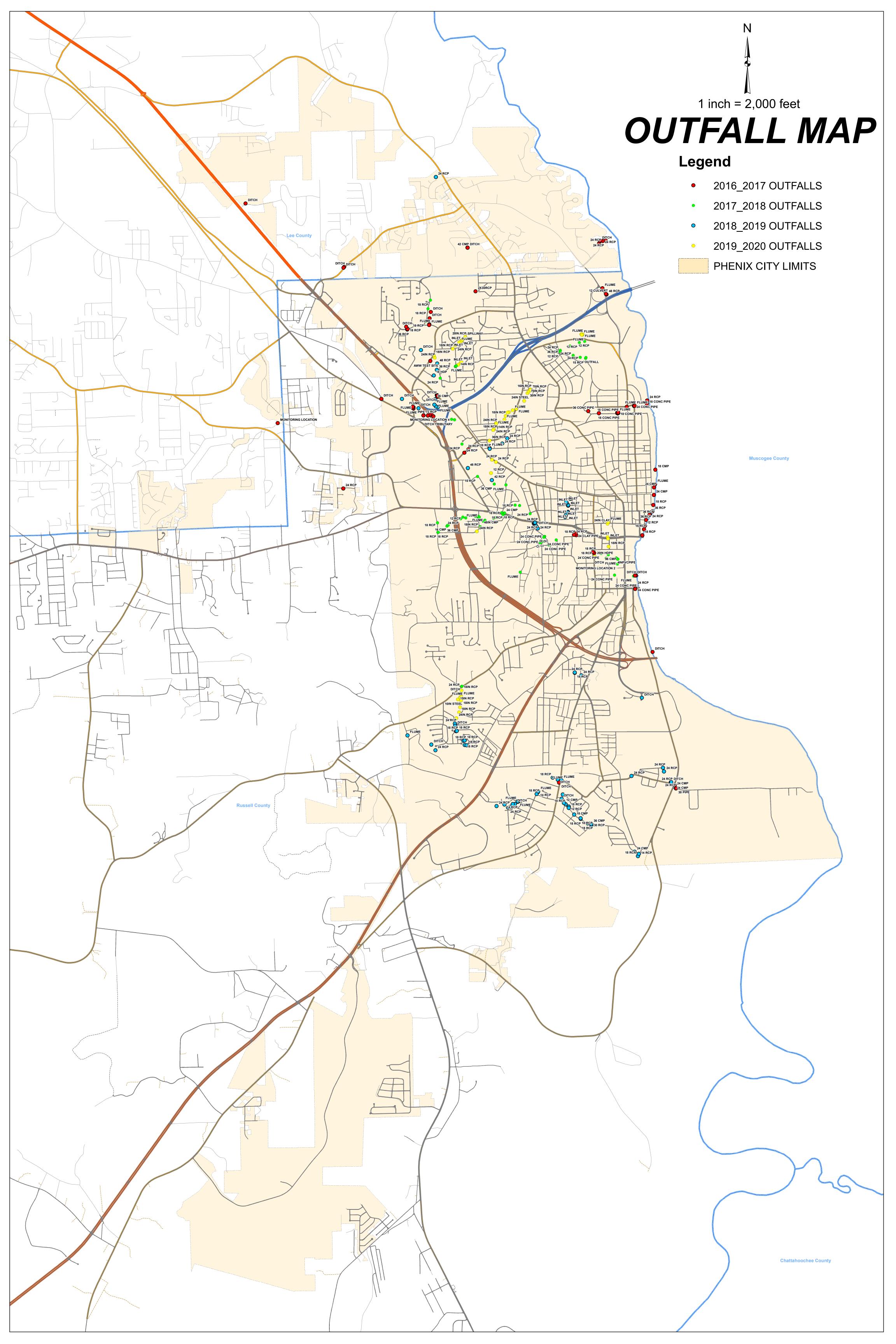
Outfall 136	32.471830	-85.033148	18" RCP	UNNAMED TRIBUTARY
Outfall 137	32.471806	-85.033098	18" RCP	UNNAMED TRIBUTARY
Outfall 138	32.473182	-85.033211	18" RCP	UNNAMED TRIBUTARY
Outfall 139	32.505976	-85.034120	18" RCP	UNNAMED TRIBUTARY
Outfall 140	32.504709	-85.034496	18" RCP	UNNAMED TRIBUTARY
Outfall 141	32.502828	-85.034726	18" RCP	UNNAMED TRIBUTARY
Outfall 142	32.496240	-85.029880	FLUME	UNNAMED TRIBUTARY
Outfall 143	32.496188	-85.029909	24" RCP	UNNAMED TRIBUTARY
Outfall 144	32.496221	-85.029904	24" RCP	UNNAMED TRIBUTARY
Outfall 145	32.496283	-85.029734	FLUME	UNNAMED TRIBUTARY
Outfall 146	32.494506	-85.032526	24" RCP	UNNAMED TRIBUTARY
Outfall 147	32.465820	-85.018912	FLUME	UNNAMED TRIBUTARY
Outfall 148	32.499732	-85.007409	12" RCP	MOON LAKE
Outfall 149	32.499580	-85.008303	12" RCP	MOON LAKE
Outfall 150	32.499079	-85.009969	24" RCP	MOON LAKE
Outfall 151	32.498448	-85.011602	24" RCP	MOON LAKE
Outfall 152	32.498241	-85.011692	36" RCP	MOON LAKE
Outfall 153	32.498205	-85.011667	36" RCP	MOON LAKE
Outfall 154	32.498180	-85.011624	12" RCP	MOON LAKE
Outfall 155	32.497676	-85.009379	24" RCP	MOON LAKE
Outfall 156	32.497415	-85.008152	24" RCP	MOON LAKE
Outfall 157	32.497319	-85.007304	15" RCP	MOON LAKE
Outfall 158	32.497367	-85.007185	24" RCP	MOON LAKE/OUTFALL
Outfall 159	32.472849	-85.031361	16" CONCRETE PIPE	UNNAMED TRIBUTARY
Outfall 160	32.498658912	-85.035865085	Ditch	HOLLAND CREEK
Outfall 161	32.496649919	-85.033031599	48 RCP	Holland Creek
Outfall 162	32.495713662	-85.033115114	36 RCP	Holland Creek
Outfall 163	32.494908550	-85.033646838	18 HDP	Holland Creek
Outfall 164	32.490226229	-85.032990171	FLUME	Holland Creek
Outfall 165	32.490356543	-85.033337019	FLUME	Holland Creek
Outfall 166	32.490591247	-85.033593146	FLUME	Holland Creek
Outfall 167	32.491378196	-85.033447358	36 CMP	Holland Creek
Outfall 168	32.491498900	-85.039212984	DITCH	Mill Creek
Outfall 169	32.490097084	-85.036335994	DITCH	Mill Creek

Outfall 170	32.489047968	-85.035496730	72 RCP	Mill Creek
Outfall 171	32.479432621	-85.023693289	42 RCP	Mill Creek
Outfall 172	32.481229950	-85.027867564	48 RCP	Mill Creek
Outfall 173	32.472262519	-85.015780489	24 RCP	Mill Creek
Outfall 174	32.472568314	-85.016013490	DITCH	Mill Creek
Outfall 175	32.472807013	-85.016212855	24 RCP	Mill Creek
Outfall 176	32.472986649	-85.016404662	24 CMP	Mill Creek
Outfall 177	32.473039716	-85.016339183	24 RCP	Mill Creek
Outfall 178	32.473105621	-85.016251049	24 RCP	Mill Creek
Outfall 179	32.473105621	-85.016251049	24 RCP	Mill Creek
Outfall 180	32.434743038	-84.993033331	24 RCP	UNNAMED TRIBUTARY
Outfall 181	32.434745306	-84.992935768	DITCH	UNNAMED TRIBUTARY
Outfall 182	32.436864409	-84.994367715	24 RCP	UNNAMED TRIBUTARY
Outfall 183	32.436336993	-84.994198205	24 RCP	UNNAMED TRIBUTARY
Outfall 184	32.435710913	-84.999843536	24 RCP	UNNAMED TRIBUTARY
Outfall 185	32.440453667	-85.028768647	18 RCP	UNNAMED TRIBUTARY
Outfall 186	32.441078757	-85.028970450	18 RCP	UNNAMED TRIBUTARY
Outfall 187	32.441130135	-85.028756563	18 RCP	UNNAMED TRIBUTARY
Outfall 188	32.442503368	-85.030222424	18 RCP	UNNAMED TRIBUTARY
Outfall 189	32.442536958	-85.030127613	18 RCP	UNNAMED TRIBUTARY
Outfall 190	32.440399403	-85.028436315	18 RCP	UNNAMED TRIBUTARY
Outfall 191	32.443635415	-85.030450837	24 RCP	UNNAMED TRIBUTARY
Outfall 192	32.443286063	-85.030393657	DITCH	UNNAMED TRIBUTARY
Outfall 193	32.435224038	-85.012640743	DITCH	Cochgalechee Creek
Outfall 194	32.435547945	-85.013519717	18 RCP	Cochgalechee Creek
Outfall 195	32.428789013	-85.007526308	18 RCP	Cochgalechee Creek
Outfall 196	32.428505307	-85.006865315	30 RCP	Cochgalechee Creek
Outfall 197	32.429446519	-85.008724683	18 RCP	Cochgalechee Creek
Outfall 198	32.429536785	-85.008736594	18 RCP	Cochgalechee Creek
Outfall 199	32.430094889	-85.009832670	18 CMP	Cochgalechee Creek
Outfall 200	32.431278582	-85.010787336	12 RCP	Cochgalechee Creek
Outfall 201	32.431078264	-85.010778892	18 RCP	Cochgalechee Creek
Outfall 202	32.431619502	-85.011317536	18 RCP	Cochgalechee Creek
Outfall 203	32.431811399	-85.011614304	12 CMP	Cochgalechee Creek

Outfall 204	32.432432558	-85.011997737	DITCH	Cochgalechee Creek
Outfall 205	32.433068150	-85.011802243	18 RCP	Cochgalechee Creek
Outfall 206	32.435062424	-85.011994414	FLUME	Cochgalechee Creek
Outfall 207	32.435176647	-85.012012445	FLUME	Cochgalechee Creek
Outfall 208	32.433455735	-85.016130248	14 RCP	UNNAMED TRIBUTARY
Outfall 209	32.433158047	-85.016328400	18 RCP	UNNAMED TRIBUTARY
Outfall 210	32.432062867	-85.019557518	24 RCP	UNNAMED TRIBUTARY
Outfall 211	32.432025499	-85.019643342	FLUME	UNNAMED TRIBUTARY
Outfall 212	32.484142341	-85.024036887	FLUME	UNNAMED TRIBUTARY
Outfall 213	32.484044980	-85.024021996	18 RCP	UNNAMED TRIBUTARY
Outfall 214	32.433537290	-85.016058980	FLUME	UNNAMED TRIBUTARY
Outfall 215	32.432112267	-85.019629054	FLUME	UNNAMED TRIBUTARY
Outfall 216	32.431727996	-85.020108263	DITCH	UNNAMED TRIBUTARY
Outfall 217	32.431704616	-85.020507134	18 RCP	UNNAMED TRIBUTARY
Outfall 218	32.431304441	-85.020884382	30 CMP	UNNAMED TRIBUTARY
Outfall 219	32.431223690	-85.021333238	24 RCP	UNNAMED TRIBUTARY
Outfall 220	32.431433540	-85.023318999	14 RCP	UNNAMED TRIBUTARY
Outfall 221	32.431433540	-85.023318990	24 RCP	UNNAMED TRIBUTARY
Outfall 222	32.524115316	-85.033036516	24 RCP	UNNAMED TRIBUTARY
Outfall 223	32.484808510	-85.021832760	24 RCP	UNNAMED TRIBUTARY
Outfall 224	32.485565998	-85.020972468	24 RCP	UNNAMED TRIBUTARY
Outfall 225	32.441945009	-85.038688622	FLUME	UNNAMED TRIBUTARY
Outfall 226	32.440555203	-85.034554401	DITCH	Cochgalechee Creek
Outfall 227	32.439701843	-85.033848353	24 RCP	Cochgalechee Creek
Outfall 228	32.476603283	-85.010135805	14 RCP	UNNAMED TRIBUTARY
Outfall 229	32.476601265	-85.009980611	18 RCP	UNNAMED TRIBUTARY
Outfall 230	32.476633124	-85.009988336	FLUME	UNNAMED TRIBUTARY
Outfall 231	32.475588329	-85.010476398	INLET	UNNAMED TRIBUTARY
Outfall 232	32.475678187	-85.010470914	INLET	UNNAMED TRIBUTARY
Outfall 233	32.475953119	-85.010710816	INLET	UNNAMED TRIBUTARY
Outfall 234	32.476120490	-85.010799905	INLET	UNNAMED TRIBUTARY
Outfall 235	32.474673837	-85.010530668	INLET	UNNAMED TRIBUTARY
Outfall 236	32.474584739	-85.010583056	INLET	UNNAMED TRIBUTARY
Outfall 237	32.474349504	-85.010768256	INLET	UNNAMED TRIBUTARY

Outfall 238	32.474159649	-85.010941157	INLET	UNNAMED TRIBUTARY
Outfall 239	32.473916954	-85.011014887	INLET	UNNAMED TRIBUTARY
Outfall 240	32.447201762	-84.997923564	DITCH	UNNAMED TRIBUTARY
Outfall 241	32.450944745	-85.009574824	18 RCP	UNNAMED TRIBUTARY
Outfall 242	32.451012468	-85.009571672	24 RCP	UNNAMED TRIBUTARY
Outfall 243	32.450574473	-85.008454258	24 RCP	UNNAMED TRIBUTARY
Outfall 244	32.423907365	-84.998839596	18 RCP	UNNAMED TRIBUTARY
Outfall 245	32.424228188	-84.998682842	14 RCP	UNNAMED TRIBUTARY
Outfall 246	32.424546341	-84.999414279	24 CMP	UNNAMED TRIBUTARY
Outfall 247	32.428681389	-85.006885197	36 CMP	Cochgalechee Creek
Outfall 248	32.498828459	-85.030322229	18 RCP	UNNAMED TRIBUTARY
Outfall 249	32.500076359	-85.028681926	INLET	UNNAMED TRIBUTARY
Outfall 250	32.500001661	-85.028756459	INLET	UNNAMED TRIBUTARY
Outfall 251	32.499856979	-85.028969423	INLET	UNNAMED TRIBUTARY
Outfall 252	32.499766776	-85.029175993	FLUME	UNNAMED TRIBUTARY
Outfall 253	32.500563704	-85.028109227	20 RCP	UNNAMED TRIBUTARY
Outfall 254	32.500547058	-85.028155882	SPILLWAY	UNNAMED TRIBUTARY
Outfall 255	32.480481297	-85.023843931	12 RCP	Holland Creek
Outfall 256	32.482439707	-85.023652380	24 RCP	UNNAMED TRIBUTARY
Outfall 257	32.482106429	-85.022997074	24 RCP	UNNAMED TRIBUTARY
Outfall 258	32.496706357	-85.028992513	INLET	UNNAMED TRIBUTARY
Outfall 259	32.496903992	-85.028847868	INLET	UNNAMED TRIBUTARY
Outfall 260	32.496452885	-85.029410669	14 RCP	UNNAMED TRIBUTARY
Outfall 261	32.499308544	-85.029895020	24 RCP	UNNAMED TRIBUTARY
Outfall 262	32.497516803	-85.033476980	24 RCP	Holland Creek
Outfall 263	32.497883411	-85.033636157	18 RCP	Holland Creek
Outfall 264	32.446016986	-85.029542977	10IN STEEL	Cochgalechee Creek
Outfall 265	32.445286555	-85.029701508	18 RCP	Cochgalechee Creek
Outfall 266	32.444423955	-85.030169567	24 RCP	Cochgalechee Creek
Outfall 267	32.447032523	-85.029342508	18 RCP	Cochgalechee Creek
Outfall 268	32.447181422	-85.029897791	15 RCP	Cochgalechee Creek
Outfall 269	32.447510094	-85.029496827	FLUME	Cochgalechee Creek
Outfall 270	32.447562930	-85.029275270	FLUME	Cochgalechee Creek
Outfall 271	32.448044790	-85.029377726	6IN PVC	Cochgalechee Creek

Outfall 272 32.448496534 -85.029255001 18 RCP Cochgalechee Creek Outfall 273 32.472397852 -85.025798065 18 RCP UNNAMED TRIBUTARY Outfall 274 32.471891103 -85.026382154 24 RCP UNNAMED TRIBUTARY Outfall 275 32.468084877 -85.003515424 18 RCP Mill Creek Outfall 276 32.4699515491 -85.003670037 INLET UNNAMED TRIBUTARY Outfall 278 32.472877801 -85.003662719 24 CLAY UNNAMED TRIBUTARY Outfall 279 32.473118691 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 280 32.4790661331 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 281 32.489993079 -85.01936085 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.01936085 FLUME UNNAMED TRIBUTARY Outfall 283 32.4901072547 -85.01799378 24IN STEEL UNNAMED TRIBUTARY Outfall 284 32.49214902 -85.01799378 24IN STEEL UNNAMED TRIBUTARY Outfall 287					
Outfall 274 32.471891103 -85.026382154 24 RCP UNNAMED TRIBUTARY Outfall 275 32.468084877 -85.005951201 20 HDPE Mill Creek Outfall 276 32.469515491 -85.003515424 18 RCP UNNAMED TRIBUTARY Outfall 277 32.47028373 -85.003670037 INLET UNNAMED TRIBUTARY Outfall 278 32.472877801 -85.003662719 24 CLAY UNNAMED TRIBUTARY Outfall 279 32.473118691 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 280 32.470661331 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 283 32.4901072547 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.49214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 285 32.492469513 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286	Outfall 272	32.448496534	-85.029255001	18 RCP	Cochgalechee Creek
Outfall 275 32.468084877 -85.005951201 20 HDPE Mill Creek Outfall 276 32.469515491 -85.003515424 18 RCP UNNAMED TRIBUTARY Outfall 277 32.470928373 -85.003670037 INLET UNNAMED TRIBUTARY Outfall 278 32.472877801 -85.003662719 24 CLAY UNNAMED TRIBUTARY Outfall 279 32.473118691 -85.003515959 FLUME UNNAMED TRIBUTARY Outfall 280 32.470661331 -85.0035163030 INLET UNNAMED TRIBUTARY Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288	Outfall 273	32.472397852	-85.025798065	18 RCP	UNNAMED TRIBUTARY
Outfall 276 32.469515491 -85.003515424 18 RCP UNNAMED TRIBUTARY Outfall 277 32.470928373 -85.003670037 INLET UNNAMED TRIBUTARY Outfall 278 32.472877801 -85.003662719 24 CLAY UNNAMED TRIBUTARY Outfall 279 32.473118691 -85.003515959 FLUME UNNAMED TRIBUTARY Outfall 280 32.470661331 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019354747 36 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfal	Outfall 274	32.471891103	-85.026382154	24 RCP	UNNAMED TRIBUTARY
Outfall 277 32.470928373 -85.003670037 INLET UNNAMED TRIBUTARY Outfall 278 32.472877801 -85.003662719 24 CLAY UNNAMED TRIBUTARY Outfall 279 32.473118691 -85.003515959 FLUME UNNAMED TRIBUTARY Outfall 280 32.470661331 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019354747 36 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.0169039342 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.020007875 FLUME UNNAMED TRIBUTARY Outfal	Outfall 275	32.468084877	-85.005951201	20 HDPE	Mill Creek
Outfall 278 32.472877801 -85.003662719 24 CLAY UNNAMED TRIBUTARY Outfall 279 32.473118691 -85.003515959 FLUME UNNAMED TRIBUTARY Outfall 280 32.470661331 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019354747 36 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489706671 -85.020007875 FLUME UNNAMED TRIBUTARY Outfal	Outfall 276	32.469515491	-85.003515424	18 RCP	UNNAMED TRIBUTARY
Outfall 279 32.473118691 -85.003515959 FLUME UNNAMED TRIBUTARY Outfall 280 32.470661331 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019354747 36 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489438443 -85.020007875 FLUME UNNAMED TRIBUTARY Outfall 291 32.48893040 -85.021225547 18 RCP UNNAMED TRIBUTARY Outfall	Outfall 277	32.470928373	-85.003670037	INLET	UNNAMED TRIBUTARY
Outfall 280 32.470661331 -85.003618030 INLET UNNAMED TRIBUTARY Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019354747 36 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489438443 -85.020007875 FLUME UNNAMED TRIBUTARY Outfall 291 32.489384794 -85.0202650533 24 HDPE UNNAMED TRIBUTARY Outfall 292 32.488890040 -85.021225547 18 RCP UNNAMED TRIBUTARY Outf	Outfall 278	32.472877801	-85.003662719	24 CLAY	UNNAMED TRIBUTARY
Outfall 281 32.489903079 -85.019360985 FLUME UNNAMED TRIBUTARY Outfall 282 32.489938571 -85.019354747 36 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489706671 -85.020007875 FLUME UNNAMED TRIBUTARY Outfall 290 32.489438443 -85.020650533 24 HDPE UNNAMED TRIBUTARY Outfall 291 32.489384794 -85.021225547 18 RCP UNNAMED TRIBUTARY Outfall 293 32.488333766 -85.021225547 18 RCP UNNAMED TRIBUTARY Outf	Outfall 279	32.473118691	-85.003515959	FLUME	UNNAMED TRIBUTARY
Outfall 282 32.489938571 -85.019354747 36 RCP UNNAMED TRIBUTARY Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489706671 -85.020007875 FLUME UNNAMED TRIBUTARY Outfall 290 32.489438443 -85.020650533 24 HDPE UNNAMED TRIBUTARY Outfall 291 32.489384794 -85.020893987 18 RCP UNNAMED TRIBUTARY Outfall 292 32.488890040 -85.021225547 18 RCP UNNAMED TRIBUTARY Outfall 294 32.487992528 -85.0221440086 FLUME UNNAMED TRIBUTARY Out	Outfall 280	32.470661331	-85.003618030	INLET	UNNAMED TRIBUTARY
Outfall 283 32.490190261 -85.019162038 42 RCP UNNAMED TRIBUTARY Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489706671 -85.020007875 FLUME UNNAMED TRIBUTARY Outfall 290 32.489438443 -85.020650533 24 HDPE UNNAMED TRIBUTARY Outfall 291 32.489384794 -85.020893987 18 RCP UNNAMED TRIBUTARY Outfall 292 32.488890040 -85.021225547 18 RCP UNNAMED TRIBUTARY Outfall 293 32.487992528 -85.022215965 FLUME UNNAMED TRIBUTARY Outfall 294 32.487429613 -85.022935082 FLUME UNNAMED TRIBUTARY Outfa	Outfall 281	32.489903079	-85.019360985	FLUME	UNNAMED TRIBUTARY
Outfall 284 32.491072547 -85.017999378 24IN STEEL UNNAMED TRIBUTARY Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489706671 -85.020007875 FLUME UNNAMED TRIBUTARY Outfall 290 32.489438443 -85.020650533 24 HDPE UNNAMED TRIBUTARY Outfall 291 32.489384794 -85.020893987 18 RCP UNNAMED TRIBUTARY Outfall 292 32.488890040 -85.021225547 18 RCP UNNAMED TRIBUTARY Outfall 293 32.488333766 -85.021440086 FLUME UNNAMED TRIBUTARY Outfall 294 32.487992528 -85.022215965 FLUME UNNAMED TRIBUTARY Outfall 295 32.487429613 -85.022935082 FLUME UNNAMED TRIBUTARY Outfal	Outfall 282	32.489938571	-85.019354747	36 RCP	UNNAMED TRIBUTARY
Outfall 285 32.492214902 -85.017373851 30 RCP UNNAMED TRIBUTARY Outfall 286 32.492469513 -85.017195896 70 RCP UNNAMED TRIBUTARY Outfall 287 32.492748375 -85.016933942 16 RCP UNNAMED TRIBUTARY Outfall 288 32.492684477 -85.016908039 70 RCP UNNAMED TRIBUTARY Outfall 289 32.489706671 -85.020007875 FLUME UNNAMED TRIBUTARY Outfall 290 32.489438443 -85.020650533 24 HDPE UNNAMED TRIBUTARY Outfall 291 32.489384794 -85.020893987 18 RCP UNNAMED TRIBUTARY Outfall 292 32.488890040 -85.021225547 18 RCP UNNAMED TRIBUTARY Outfall 293 32.488333766 -85.021440086 FLUME UNNAMED TRIBUTARY Outfall 294 32.487992528 -85.022215965 FLUME UNNAMED TRIBUTARY Outfall 296 32.486930433 -85.022935082 FLUME UNNAMED TRIBUTARY Outfall 297 32.487796127 -85.022910214 14 RCP UNNAMED TRIBUTARY	Outfall 283	32.490190261	-85.019162038	42 RCP	UNNAMED TRIBUTARY
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Public Education and Public Involvement On Storm Water Impacts



NONPOINT SOURCE SUCCESS STORY

Community Partnerships Restore the Water Quality of Mill Creek

Waterbody Improved

In 2006, the Alabama Department of Environmental Management (ADEM) added Mill Creek to the Clean Water Act (CWA) section

303(d) list due to a poor macroinvertebrate assessment rating. In 2010, the listing was updated based on additional data that indicated Mill Creek did not fully support its use classification of fish and wildlife with respect to organic enrichment, low dissolved oxygen, and compromised macroinvertebrate community as a result of urban development and runoff. Partners implemented targeted best management practices (BMPs) to reduce nonpoint source (NPS) pollution using a watershed management plan (WMP) developed with stakeholder contributions. Water quality improved thanks to a series of CWA section 319(h) implementation grants and community support in the watershed, and ADEM removed the segment from the CWA section 303(d) list in 2018.

Problem

The headwaters for Mill Creek are in the city of Smiths Station in Lee County, Alabama. The stream flows for 9.93 miles through Lee County into Russell County and eventually discharges into the Chattahoochee River in Phenix City, Alabama (Figure 1). The basin is in the Southeastern Plains, Fall Line Hills Ecoregion (Ecoregion 65i), which is characterized by loamy and sandy sediments. In 2011 the watershed was comprised of approximately 60% urban development and 31% forested land. The Recovery Potential Screening Tool estimated that a 7.7% increase in urban development occurred between 2001 and 2011. This land use change contributed additional stress that threatened Mill Creek's water quality.

An NPS screening assessment of the Chattahoochee and Chipola river basins revealed the macroinvertebrate community was impaired. In 2006, ADEM listed Mill Creek on the CWA section 303(d) list with the cause and source of impairment both as unknown. In 2010, after further sampling, the CWA section 303(d) list was updated to signify the stream did not fully support its use classification of fish and wildlife. This impairment was attributed to a dissolved oxygen level of less than 5.0 milligrams per liter (mg/L) and organic enrichment that was elevated over the least-impaired reference reach data collected elsewhere in Ecoregion 65i. (When assessing impairment, ADEM's reference condition approach considers ambient water quality data from reference streams in the same ecoregion

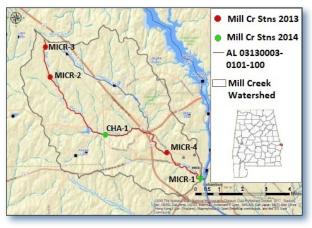


Figure 1. Monitoring stations along Mill Creek.

and having characteristically similar watersheds.) Riparian buffer loss combined with increased impervious surfaces and urban development/runoff in the watershed have been identified as a source of the excessive nutrients and sedimentation that resulted in decreased water quality and increased stormwater volume entering Mill Creek.

Story Highlights

In 2010, Alabama Cooperative Extension System (ACES), ADEM, and other local, private and public entities collaborated to assemble information for the Mill Creek WMP. The goal of the plan was to identify scientifically supported and economically effective restoration activities to improve the health and habitat

of Mill Creek. The objective of this plan was to address impairments to the creek with on-the-ground BMPs and education for the communities in the watershed.

Beginning in 2011, the first phase of the project involved installing bioretention cells, rain gardens, vegetated swales, constructed stormwater wetlands, stream restoration, sediment and erosion control practices, and a septic tank pump-out program. In addition, education/outreach activities included presentations at local schools and public meetings for landowners.

A second phase (2013–2016) focused on accelerating the removal of the waterbody from the CWA section 303(d) list and reducing excessive NPS pollutant loadings to the waterbody. The project targeted high-yielding pollution sites, partnering with local landowners to install BMPs to control NPS runoff, and providing education and outreach to the surrounding community. BMPs implemented included three stream restorations, a constructed stormwater wetland, a rain garden with cisterns, and streambank stabilization.

The low impact development practices such as bioretention cells, rain gardens, swales, and wetlands created during these projects allow for detention and infiltration of stormwater to reduce the volume of urban runoff. Nutrient uptake has been enhanced with the installation of additional vegetation with these practices, which reduces the abundance of organic enrichment entering the stream. The stream restoration regenerated habitat complexity with riffles, pools, runs, and woody/natural materials, which increased the abundance and diversity of macroinvertebrates in the stream. The structures placed in stream redirect the flow of water to the middle of the stream channel. which reduces stream bank erosion. Improved aeration occurs when air is drawn into the water as it flows over structures in the stream (Figure 2).

Results

In 2014, ADEM sampled station MICR-1 for indicators of excessive organic enrichment and dissolved oxygen. Water quality in parameters for organic enrichment were within the ecoreference level concentrations. Dissolved oxygen concentrations remained within normal levels during the sampling events and ranged between 5 and 10.5 mg/L. In 2014, eight EPT (Ephemeroptera, Plecoptera, and Trichoptera)



Figure 2. A boulder cross-vane redirects erosive flows.

taxa were also collected, an increase from samples collected in 1999 (one EPT) and 2008 (four EPT); the improved macroinvertebrate assessment rating is designated as fair. The ADEM assessment of water quality data collected following the implementation of numerous restoration activities in the watershed from 2011-2016, determined that Mill Creek fully supports its use classification and removed the segment from the 2018 CWA section 303(d) list.

Partners and Funding

ACES and Auburn University coordinated the Mill Creek watershed projects. Partnerships that developed and strengthened through the years contributed to the project success. Three CWA section 319(h) watershed implementation grants from fiscal years 2009, 2011, and 2012, which totaled \$534,963 in federal funding, was the principal funding source for restoration activities. Watershed partners provided \$433,092 in nonfederal match. The National Fish and Wildlife Foundation's Five Star Grant leveraged \$49,964 for the stream project and an outdoor classroom. Other partners include Smiths Station; Lee and Russell counties; Phenix City; Lee County Board of Education; University of Georgia Extension Services; Columbus Water Works; North State Environmental, LLC; Jennings Environmental, LLC; Zink Environmental, LLC; Alabama Water Watch; Chattahoochee River Warden; Phenix City Beautiful; Consolidated Resources; Phenix City Public Schools; Motz Enterprises, Inc; Erosion Pros; Alabama Power; Alabama Clean Water Partnership; and others.



U.S. Environmental Protection Agency Office of Water Washington, DC

EPA 841-F-20-001B January 2020

For additional information contact:

Alabama Nonpoint Source Management Program
Alabama Department of Environmental Management
334-260-4501 • ADEM.NPS.Program@adem.alabama.gov
Eve Brantley

Alabama Cooperative Extension System 334-844-3927 • brantlef@auburn.edu



Phase II Storm Water Program

Fall 2019

Pesticide Clean Day



The Russell County Extension Office has announced that an Agricultural Pesticide Clean Day has been planned for this area of Russell and Lee Counties on November 13, 2019. This cleanup is a joint effort between the Alabama Department of Agriculture and Industries and the Alabama Cooperative Extension System, to allow for harmful chemical containing products to be disposed of easily. You will not be charged for the disposal of these products. The maximum amount to be allowed per vehicle will not exceed 1,000 pounds. If you wish to participate you will need to complete a Pesticide Registration Form and return it to your local extension office on or before November 11, 2019. After your registration form is received, you will be contacted and provided all the collection details. It is important that the form, with inventory, is completely filled out and that accurate information is provided. If you have any questions please contact the Alabama Extension - Russell office at (334) 298 - 6845.

Disposable products that will be accepted: known and unidentifiable pesticides, insecticides, fungicides, herbicides, and rodenticides, as well as other products such as defoliants, adjuvants, and growth retardants.















Disposable products that will NOT be accepted: explosives, compressed gas cylinders, petroleum products (motor oil), paints, tires, medical waste, radioactive materials, dioxin precursors, or seeds.









Registration ends on November 11, 2019.

When You're
Fertilizing the Lawn,
Remember...
You're Not Just
Fertilizing the Lawn.

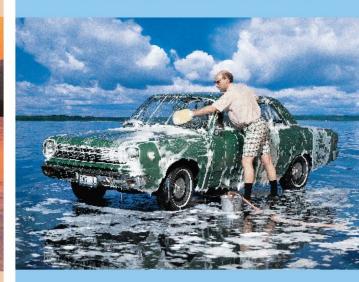


You fertilize the lawn. Then it rains. The rain washes the fertilizer along the curb, into the storm drain, and directly into our waterways. The nutrients encourage algae to grow, using up oxygen that fish need to survive and thrive. So, if you fertilize, please follow directions, and use sparingly.

When Your Car Leaks
Oil on the Street,
Remember...
It's Not Just Leaking
Oil on the Street.



Leaking oil goes from your car to the street and is washed from the street into the storm drain and into our lakes, streams and bays. Imagine the number of cars in your community and you can imagine the amount of oil that finds its way from leaky gaskets into our water. So please, fix oil leaks. When You're Washing Your Car in the Driveway, Remember... You're Not Just Washing Your Car in the Driveway.



All of the soap, scum and oily grit from your car runs along the curb, then into the storm drain and directly into our rivers, bays and bayous. That causes pollution that is unhealthy for aquatic life. You can avoid this by washing your car on the grass or gravel instead of on the street or driveway. Or better yet, take it to the car wash where the water gets treated and recycled.



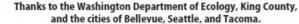
















Thanks to the Washington Department of Ecology, King County, and the cities of Bellevue, Seattle, and Tacoma.

Help Stop Pointless Pollution

Be a part of the cleanup of the waterways in our area.

Clean water is important to all of us.

In recent years, sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60 percent of water pollution comes from sources like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. Each of us can do our part to help clean up our water.

Why do we need clean water?

Clean water is important to our health and economy. Clean water provides recreation, fish habitat, drinking water, and adds beauty to our landscape. Everyone benefits from clean water.

What's the problem with fertilizer?

Fertilizer is not a problem when it is used correctly. In waterways, as in your yard, too much fertilizer can promote excessive algae and aquatic plants. This can harm water quality and make boating, fishing and swimming unpleasant.

For more information on soil testing, fertilizing alternatives and composting, call your County Cooperative Extension Agent or go to http://www.aces.edu/directory/.

How can you apply fertilizers and help keep our waters clean?

- Use fertilizers sparingly. Follow the manufacturers instructions.
- Have your soil tested for fertilizer needs.
- Don't apply fertilizers before a rainstorm.
- Consider using organic fertilizers, since they release nutrients slowly.
- Use commercially available compost or make your own using a garden composter. Mixing compost with your soil means your plants will need less chemical fertilizer. Commercial compost and soil amendments may be available from your solid waste or wastewater utility as well as your local lawn and garden store.

For more information contact:

Alabama Department of Environmental Management Office of External Affairs (334) 260-4501

> Municipal Storm Water Program (334) 271-7700

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Why do we need clean water?

Clean water is important to our health and economy. Clean water provides recreation, fish habitat, drinking water, and adds beauty to our landscape. Everyone benefits from clean water.

What's the problem with motor oil?

Oil does not dissolve in water. Oil and other petroleum products are toxic to people, wildlife and plants. One pint of oil can make a slick larger than a football field. Oil that leaks from our cars onto roads and driveways is washed into storm drains, or directly into our lakes, streams or marine water. Used motor oil is the largest single source of oil pollutants (over 180 million gallons per year), in our lakes, streams and rivers.

How can you prevent motor oil pollution and help keep our waters clean?

- Never dispose of oil or other engine fluids down the storm drain, on the ground or into a ditch. Recycle used motor oil. Many auto supply stores and gas stations will accept used oil.
- Check for oil leaks regularly and use drip pans beneath your vehicle if you have leaks. Keep your car tuned to reduce oil use.
- Use ground cloths while performing engine work. Clean up spills immediately. Collect all used oil in containers with tight fitting lids.

For more information contact:

Alabama Department of Environmental Management Office of External Affairs (334) 260-4501

> Municipal Storm Water Program (334) 271-7700

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Why do we need clean water?

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What's the problem with car washing?

Many soaps contain phosphates and most car-care products contain chemicals that may harm fish and degrade water quality. The phosphates from the soap can cause excess algae to grow. Algae sometimes looks or smells bad, and may be harmful to water quality. As algae decays, the process uses up oxygen in the water that fish need to survive.

How can you wash your car and help keep our waters clean?

- Best solution: take your car to a commercial car wash.
 Most car washes reuse water several times before sending it to the wastewater facility for treatment.
- Use soap that is chlorine- and phosphate-free.
- Use soap sparingly. Use a hose nozzle with a trigger to save water.
- Pour your bucket of soapy water down the sink or toilet when you're done, not in the street.
- Wash your car on a grassy area so the ground can filter the water naturally.

For more information contact:

Alabama Department of Environmental Management Office of External Affairs (334) 260-4501

Municipal Storm Water Program (334) 271-7700







Storm Water Educational Materials











Help the Hooch on City Marquees







Illicit Discharge Detection and Elimination Notice Letter

(Example)



601 12th Street | Phenix City, AL 36867

Ph: 334-448-2760 | Fx: 334-291-4848

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. Mayor Pro Tem / District 3

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

CERTIFIED MAIL

October 4, 2019

Tremelle Hall **BT Auto Mart** 1215 14th Street Phenix City, AL 36867

RE:

Alabama Department of Environmental Management MS4 Permit

BT Auto Mart - 1215 14th Street Phenix City, AL 36867

Dear Property/ Business Owner:

The National Pollutant Discharge Elimination System (NPDES) permit program, created in 1972 by the Clean Water Act (CWA), helps address water pollution by regulating point sources that discharge pollutants to waters of the United States. Under the CWA, the United States Environmental Protection Agency (EPA) authorizes the NPDES permit program to state governments, enabling them to perform many of the permitting, administrative, and enforcement aspects of the NPDES program. In our state the Municipal Section of the Alabama Department of Environmental Management (ADEM) manages the NPDES program for municipal (point source and municipal stormwater) and non-industrial sources.

The City of Phenix City is required by ADEM to have a General Permit for Phase II Small Municipal Separate Storm Sewer Systems (MS4), which includes a Stormwater Management Program Plan (SWMPP), Illicit Discharge Detection and Elimination Program (IDDE), and an Ordinance in place to enforce them. The purpose of the SWMPP and the IDDE is to ensure that water entering into the City's MS4 and eventually into the waters of the State and the United States meets the requirements of the EPA.

For the purpose of this letter, the focus is on the Illicit Discharge Detection and Elimination Program (IDDE). The EPA qualifies illicit discharge generating sites as either residential or commercial. While residential sites can be sources of illicit discharges, commercial sites are the predominant sources for such discharges. The EPA qualifies discharge flow types as sewage and septage, washwater, liquid wastes, tap water, landscape irrigation, and groundwater. Washwater flows are generated from a wide variety of activities and operations such as outdoor washing, disposal of food waste, car fueling, repair and washing, parking lot power washing, poor dumpster management, commercial laundries, carwashes and floor washing to shop drains. Liquid waste flows include, but are not limited to oil, grease, paint, solvents and various automotive fluids.







Ph: 334-448-2760 | Fx: 334-291-4848

It is the City's duty to see that the requirements of the MS4 Permit are enforced. Any existing or new business that qualifies as a producer of illicit discharges must be brought into compliance with the requirements of the MS4 Permit. Any business that fails to do so will not be able to renew its business license and will result in an issuance of a notice of violation and enforcement per Ordinance No. 2017-01 Chapter 10 ½ - STORMWATER MANAGEMENT.

There are three methods available to become compliant.

- 1. Obtain a permit from the Alabama Department of Environmental Management's Industrial Section. They can be contacted at 334-271-7943. A copy of the permit shall be provided to the City.
- 2. Discharge washwater or liquid waste into the City's sanitary sewer system. This method requires approval from the Phenix City Utilities Department. You may contact the Utilities Department at 334-448-2880 for additional information.
- Provide a best management practice plan designed by a professional engineer licensed to practice in the State of Alabama. Said plan shall be submitted to the Phenix City Engineering Department for review and approval. The City of Phenix City will not design or make recommendations for products that may be used to satisfy the necessary requirements.

Any business currently in compliance is required to provide proof to the Phenix City Engineering Department, prior to the renewal of business license.

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

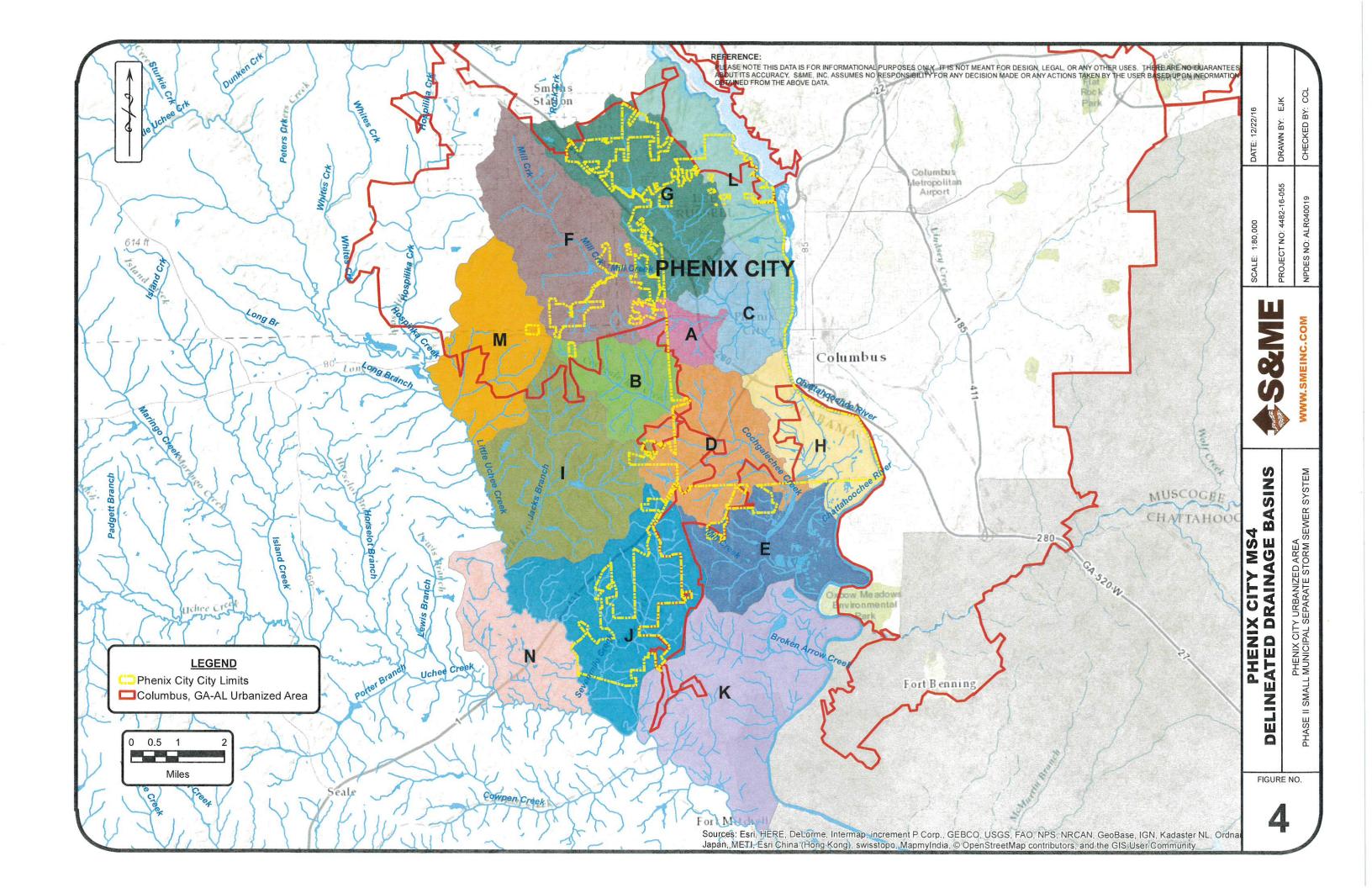






Illicit Discharge Potential (IDP)

Basin	Square Miles	# of PGS	Sites per sq mi	Appx. Septic	AOD	PGS	SFD	PID	ORI	Total IDP Score
Α	1.85	4	2.16	100-150	2	1	2	1	1	7
В	3.82	2	0.52	365	1	1	2	1	1	6
С	3.29	14	4.26	0	3	2	1	1	1	8
D	7.25	10	1.38	100-200	2	1	2	1	1	7
Е	6.44	4	0.62	80	1	1	2	1	1	6
F	10.16	10	0.98	1100+	2	1	3	1	1	8
G	9.24	30	3.25	700-800	2	2	2	1	1	8
Н	4.79	16	3.34	4	3	2	1	1	1	8
I	10.46	1	0.10	600-700	1	1	2	1	1	6
J	11.00	2	0.18	300-400	2	1	2	1	1	7
K	13.04	1	0.08	500-600	1	1	2	1	1	6
L	5.69	7	1.23	300	3	1	2	1	1	8
М	7.15	5	0.70	1000+	2	1	3	1	1	8
N	5.69	0	0.00	100-150	1	1	2	1	1	6



Potential Generating Sites

per EPA ECHO Database

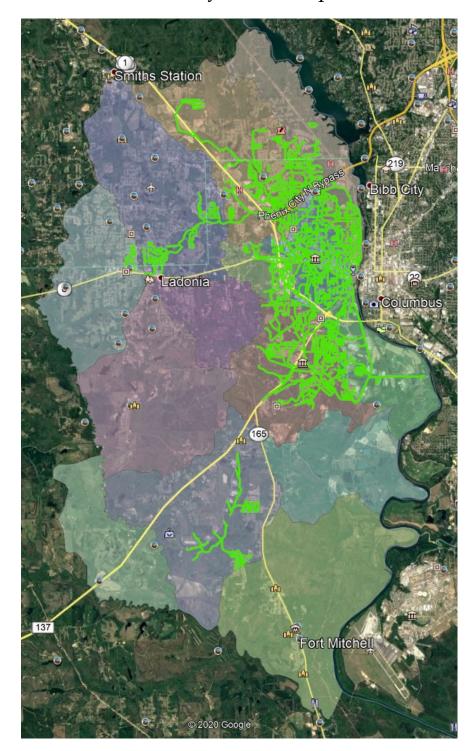
FacName	FacStreet	FacCity	FacState
22ND AVE SERVICE STATION	22ND AVE AT ITS' INTERSECTION WITH US HWY 280	PHENIX CITY	AL
ALATRADE FOODS LLC	6 DOWNING DR	PHENIX CITY	AL
ARGO & SONS SILVER LEAF LOTS	SILVER LAKE DRIVE	PHENIX CITY,	AL
ARGO CONSTRUCTION	HIGHWAY 280	PHENIX CITY	AL
ARGOS PHENIX CITY PLANT	350 BRICKYARD RD	PHENIX CITY	AL
AUTO TRANS	30 COFFIELD DRIVE	PHENIX CITY	AL
AUTUMN BROOKE SUBDIVISION	NEAR 3787 OPELIKA ROAD	PHENIX CITY	AL
BAMA AUTO SALES	194 WOODLAND DR	PHENIX CITY	AL
BLAZE RECYCLING & METALS	309 STATE DOCK ROAD	PHENIX CITY	AL
BORAL BRICKS	100 BRICKYARD RD	PHENIX CITY	AL
BOSWELL ROAD PIT	284 BOSWELL RD	PHENIX CITY	AL
BR-0008(509) PS1426	SR-8 (US-80) REPLACE BRIDGE OVER LITTLE UCHEE CR	PHENIX CITY	AL
BRANCH CREEK	33RD AVENUE	PHENIX CITY	AL
BURGER KING ON STADIUM DRIVE	1820 STADIUM DRIVE	PHENIX CITY	AL
CARMACK INC DBA PHENIX FOUNDRY	803 INDUSTRIAL CIRCLE	PHENIX CITY	AL
CENTRAL HIGH SCHOOL	2400 DOBBS DR	PHENIX CITY	AL
CHATTAHOOCHEE VALLEY COMMUNITY COLLEGE	2602 COLLEGE DRIVE	PHENIX CITY	AL
CHS ATHLETIC FACILITY	2400 DOBBS DR	PHENIX CITY	AL
COLUMBUS DEV INC - LEXINGTON	MILLPOND DRIVE	PHENIX CITY	AL
CONTINENTAL CARBON COMPANY	1500 EAST STATE DOCKS ROAD	PHENIX CITY	AL
CRAWFORD PIT	BLEEKER RD	PHENIX CITY	AL
CVS PHARMACY #1824	5405 SUMMERVILLE ROAD	PHENIX CITY	AL
CVS PHARMACY #4934	2514 CRAWFORD RD	PHENIX CITY	AL
DAIRY QUEEN GRILL & CHILL	LOT B - ASHWOOD DRIVE	PHENIX CITY	AL
DANNY PARRISH PROPERTY	1453 LEE COUNTY ROAD 425	PHENIX CITY	AL
DEL TACO RESTAURANT	1212 E. 280 BYPASS	PHENIX CITY	AL
DEPPE COTTAGES	LEE ROAD 209	PHENIX CITY	AL

DUDLEY PROPERTY	US HWY 280; 32.5145, -85.0633.	PHENIX CITY	AL
DYKES AND SON GRADING	2808 OPELIKA RD	PHENIX CITY	AL
DYKES BODY SHOP	1228 11TH AVE	PHENIX CITY	AL
DYKES HAUL PIT	2804 OPELIKA ROAD	PHENIX CITY	AL
EAGLE POINTE SUBDIVISION	SAWGRASS LANE	PHENIX CITY	AL
FAULK & SON, INC.	3610 HIGHWAY 80 WEST	PHENIX CITY	AL
GIBBONS FENDER & BODY WORKS INC	1208 10TH AVENUE	PHENIX CITY	AL
GRAND RESERVE - PHENIX CITY	BETWEEN HWY 431 & OLD SEALE ROAD	PHENIX CITY	AL
GREENE LESLIE DUDLEY/GLOVER	GLOVER RD	PHENIX CITY	AL
HAMMETT STEEL LLC	3015 LAKEWOOD DRIVE	PHENIX CITY	AL
IIG MINWOOL LLC	908 JOHN BUSSEY DRIVE	PHENIX CITY	AL
IVY CREEK SUBDIVISION	LANDMARK DRIVE (LEE RD 456) OFF OF HWY 280/431 NOR	PHENIX CITY	AL
JACK'S RESTAURANT	3899 US HWY 80 W	PHENIX CITY	AL
KMART 4760	2003 US HWY 280 BYPASS	PHENIX CITY	AL
LADONIA COMMERCIAL	US HWY 80 NW OF ITS' INTERSECTION WITH WOODLAND DR	PHENIX CITY	AL
LEATHERWOOD & SONS BODY SHOP	1225 10TH AVENUE	PHENIX CITY	AL
LESLIE GREENE CUTRATE GRADING	CUTRATE ROAD	PHENIX CITY,	AL
MALLARD CREEK SUBDIVISION LOTS 20A, 70, 72, 73, 74, 96	NEAR THE WESTERN END OF TEAL DRIVE	PHENIX CITY	AL
MARATHON MART #102	410 MARTIN LUTHER KING BOULEVARD	PHENIX CITY	AL
MCLENDON TRAILERS	58 CUTRATE ROAD	PHENIX CITY	AL
MEADWESTVACO COATED BOARD, LLC	1817 HWY 165 S	PHENIX CITY	AL
MERIDIAN BRICK LLC	1415 BRICKYARD RD	PHENIX CITY	AL
MERIDIAN BRICK LLC	1501 BRICKYARD RD	PHENIX CITY	AL
MS4 PHASE II	601 12TH STREET	PHENIX CITY	AL
OCONEE CONCRETE CO	347 WOODLAND DRIVE	PHENIX CITY	AL
OPELIKA ROAD PIT	2335 OPELIKA RD	PHENIX CITY	AL
ORCHARD HILLS SUBDIVISION	26TH COURT	PHENIX CITY	AL
OWENS CORNING HT INCORPORATED	908 OWENS CORNING DR.	PHENIX CITY	AL
PARK PLACE SUBDIVISION	701 PARK AVE	PHENIX CITY	AL
PCBOE BUS MAINTENANCE FACILITY	5TH ST. S / 7TH AVE. S BEHIND SOUTH GIRARD SCHOOL	PHENIX CITY	AL
PEP BOYS AUTO SERVICE & TIRES #1572	5 ASHWOOD DRIVE	PHENIX CITY	AL
PHENIX CITY 29TH STREET LIFT STATION	29TH STREET AND 1ST AVE	PHENIX CITY	AL
PHENIX CITY DEPARTMENT OF PUBLIC UTILITIES	1119 BROAD STREET	PHENIX CITY	AL
PHENIX CITY FREIGHT	900 BRICKYARD ROAD	PHENIX CITY	AL

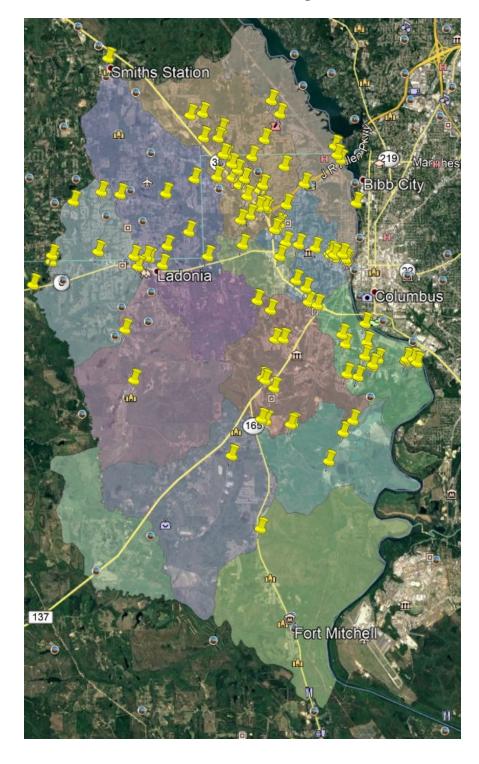
PHENIX CITY MARKETPLACE	HWY 280 (431S)	PHENIX CITY	AL
PHENIX CITY PIT	1371 BRICKYARD ROAD	PHENIX CITY	AL
PHENIX CITY PLANT	6 DOWNING DRIVE	PHENIX CITY	AL
PHENIX CITY RETAIL	3732 U.S. HWY 280	PHENIX CITY	AL
PHENIX CITY TRANSFER STATION	610 STATE DOCKS ROAD	PHENIX CITY	AL
PHENIX CITY WASTEWATER TREATMENT PLANT	1600 EAST STATE DOCKS ROAD	PHENIX CITY	AL
PHENIX FOUNDRY	STATE DOCK ROAD	PHENIX CITY	AL
PHENIX LUMBER CO	4 CUT RATE RD	PHENIX	AL
PINE HOLLOW INC.	18 OLD BRICKYARD ROAD	PHENIX CITY	AL
PRINCE MANUFACTURING COMPANY	ALABAMA STATE DOCKS RD	PHENIX CITY	AL
PROJECT NUMBER: LCP 41-147-17	LEE ROAD 197	PHENIX CITY	AL
READY MIX USA, LLC-PHENIX CITY FACILITY	2806 DOBBS DRIVE	PHENIX CITY	AL
RIDGEWOOD COVE SUBDIVISION	DOBBS DRIVE	PHENIX CITY	AL
RIVERCHASE COMMERCIAL SW	RIVERCHASE DR AT J R ALLEN PJWY	PHENIX CITY	AL
RIVERCHASE DRIVE	RIVERCHASE DRIVE AT US HWY 80	PHENIX CITY	AL
RIVERCHASE DRIVE PUMP STATION	NEAR 4401 RIVECHASE DRIVE	PHENIX CITY	AL
ROBINSON ASPHALT PLANT	1250 LONESOME PINE ROAD	PHENIX CITY	AL
ROBINSON GRAVEL PIT	ABERCROMBIE ROAD	PHENIX CITY	AL
ROYAL OAKS II	LEE ROAD 208	PHENIX CITY	AL
RT TRANSPORTATION	4414 BRIDGEWATER CIRCLE	PHENIX CITY	AL
RUSSELL CO COMMUNITY HOSPITAL DBA JACK HUGHSTON MEMORIAL HOSPI	T 4401 RIVER CHASE DR	PHENIX CITY	AL
S&S CLEANERS INC DBA TRI CITY CLEANERS	700 13TH ST	PHENIX CITY	AL
SHERMAN INDUSTRIES LLC - PHENIX CITY PLANT	25 6TH PLACE SOUTH	PHENIX CITY	AL
SMITH CONTRACT PAINTING	93 LEE ROAD 212	PHENIX CITY	AL
SMITHS STATION STORAGE	110 LEE ROAD 562	PHENIX CITY	AL
SOUTHEAST TRUCK & TRAILER REFURBISHERS INC	800 MEADOWLANE DRIVE	PHENIX CITY	AL
ST-057-011-003 PS 1772	SR-1 (US-280) FROM JUST NORTH OF PRICE ROAD TO JCT	PHENIX CITY	AL
STPAA-HSIP-0165(503) PS1933	RESURFACE AND 2' SAFETY WIDENING ON SR-165 FROM CR	PHENIX CITY	AL
SUMMER VINEYARD S/D	WHITEROCK RD AT HWY 80 E	PHENIX CITY	AL
TAYLOR PARTS INC.	1921 CRAWFORD RD	PHENIX CITY	AL
TAYLOR PARTS OF COLUMBUS INC	1012 THIRTEENTH STREET	PHENIX CITY	AL
THE BATTERY MAN	39 SPRING VALLY ROAD	PHENIX CITY	AL
THE HOME DEPOT #HD0817	3784 HWY 280 -431 NORTH	PHENIX CITY	AL
THE RESERVE AT STAFFORDSHIRE, PH VI	LEE ROAD 240	PHENIX CITY	AL

US HWY 431	PHENIX CITY	AL
5370 RIVERCHASE RD	PHENIX CITY	AL
330 LEE ROAD 456	PHENIX CITY	AL
1015 12TH PLACE	PHENIX CITY	AL
2012 HWY 280-431 N	PHENIX CITY	AL
LEE RD 307	PHENIX CITY	AL
HIGHWAY 80	PHENIX CITY	AL
900 SOUTH BRICKYARD ROAD	PHENIX CITY	AL
3503 LAKEWOOD DRIVE	PHENIX CITY	AL
LAKEWOOD DRIVE	PHENIX CITY	AL
SUMMERVILLE RD	PHENIX CITY	AL
903 FONTAINE ROAD	PHENIX CITY	AL
3700 HWY 280/431 NORTH	PHENIX CITY	AL
3864 US HIGHWAY 80 WEST	PHENIX CITY	AL
LEE ROAD 240 @ LEE ROAD 464	PHENIX CITY	AL
17TH ST AND 4TH AVE	PHENIX CITY	AL
WILLOW BRANCH DRIVE	PHENIX CITY	AL
(WEST OF KNOWLES ROAD; JUST SOUTH OF SUMMERWIND DRI	PHENIX CITY	AL
INTERSECTION OF US HWY 80 & WOMMACK ROAD	PHENIX CITY	AL
1412 14TH ST	PHENIX CITY	AL
. (5370 RIVERCHASE RD 330 LEE ROAD 456 1015 12TH PLACE 2012 HWY 280-431 N LEE RD 307 HIGHWAY 80 900 SOUTH BRICKYARD ROAD 3503 LAKEWOOD DRIVE LAKEWOOD DRIVE SUMMERVILLE RD 903 FONTAINE ROAD 3700 HWY 280/431 NORTH 3864 US HIGHWAY 80 WEST LEE ROAD 240 @ LEE ROAD 464 17TH ST AND 4TH AVE WILLOW BRANCH DRIVE (WEST OF KNOWLES ROAD; JUST SOUTH OF SUMMERWIND DRI INTERSECTION OF US HWY 80 & WOMMACK ROAD	5370 RIVERCHASE RD 330 LEE ROAD 456 PHENIX CITY 1015 12TH PLACE PHENIX CITY 2012 HWY 280-431 N LEE RD 307 PHENIX CITY HIGHWAY 80 PHENIX CITY 900 SOUTH BRICKYARD ROAD PHENIX CITY 3503 LAKEWOOD DRIVE PHENIX CITY LAKEWOOD DRIVE PHENIX CITY SUMMERVILLE RD PHENIX CITY 903 FONTAINE ROAD PHENIX CITY 3700 HWY 280/431 NORTH PHENIX CITY 3864 US HIGHWAY 80 WEST PHENIX CITY LEE ROAD 240 @ LEE ROAD 464 PHENIX CITY 17TH ST AND 4TH AVE PHENIX CITY WILLOW BRANCH DRIVE WILLOW BRANCH DRIVE PHENIX CITY INTERSECTION OF US HWY 80 & WOMMACK ROAD PHENIX CITY

Sanitary Sewer Map



Potential Generating Sites



Action Center (Example)

Benjamin Chastain

From:

Do Not Reply

Sent:

Monday, January 13, 2020 12:39 PM

To:

Angel Moore; Kathy Jo Davis; Benjamin Chastain

Subject:

Action Center Request "Storm Drains & Flooding"

From: PATRICIA G CURBOW Subject: Action Center Request

Message Body:

Nature of Problem: Storm Drains & Flooding

Description of Problem: Behind the houses on 13th Ave runs a drainage ditch. It has a fenced in area behind my house but somewhere it is clogged up because my neighbors backyard is flooding. I know in one area across my backfence something has built a little dam. No one seems to take care of the run off area.

Location: 4103 13th Ave.

Contact Information

Name: PATRICIA G CURBOW

Email:

Phone Number:

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

Land Disturbing Permit (Example)

PHENIX CITY, ALABAMA

LAND DISTURBING PERMIT

PHONE 334-448-2760

ENGINEERING DEPARTMENT

	PERMIT NO. <u>19-04</u>
Owner:	Russell County Department of Human Resources
Contractor:_	Beasley Construction
Address:	3104 Opelika Road
	PERMIT ISSUANCE FOR:
	Russell County DHR
	POST THIS CARD
	NOTIFY ENGINEERING DEPARTMENT 48 HOURS
	PRIOR TO COMMENCING WORK
	PLANS MUST BE RETAINED ON THE JOB SITE AND THIS CARD T POSTED UNTIL FINAL INSPECTION HAS BEEN MADE.
CONTR	PPROVAL IN NO WAY RELIEVES THE PROPERTY OWNER, ACTOR, ENGINEER OR OTHER AGENT OF HIS DAMAGE TO PROPERTIES AND LIABILITY RESULTING THERE FROM AND
	OT CONSTITUTE AN ASSUMPTION OF LIABILITY BY THE CITY

DO NOT REMOVE OR DEFACE THIS CARD UNTIL CONSTRUCTION IS COMPLETE

OF PHENIX CITY FOR DAMAGES CAUSED BY CONSTRUCTION AND/OR GRADING PERFORMED UNDER SAID PLANS AND PERMITS.

Notice of Non-Compliant Construction Site Notice of Violation & Stop Work Order

(Example)



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601 12th Street | Phenix City, AL 36867

Ph: 334-448-2760 | Fx: 334-291-4848

phenixcitual.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. Mayor Pro Tem / District 3

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

July 12, 2019

STOP WORK ORDER VIA HAND DELIVERY

Wade Jurney Homes 6783 Veterans Parkway Columbus, GA 31909

Re: Hillcrest Estates Subdivision

312 Irish Court, 318 Irish Court, 320 Irish Court, 312 Irish Lane

Dear Sir or Madam:

On July 12, 2019, a representative of the City of Phenix City conducted a follow up inspection of the Erosion and Sediment Control Best Management Practices (BMP) for the above referenced project. During the site visit it was noted that the following items have not been completed, as requested in the letter that was hand delivered on July 8, 2019:

- 1) Repair/replace erosion and sediment control measures, including silt fence, as needed.
- 2) Clean trash and debris from site.
- 3) Clean sediment from street and gutter.
- 4) Clean waste concrete from ROW. Concrete trucks must washout at designated area.

In order to comply with the Erosion and Sediment Control Policy of the City of Phenix City, amended by Ordinance No. 2007-01, all work onsite must cease with the exception of that work needed to bring the site into compliance with the policy. Further actions may be taken to address this violation. More information and a copy of the policy is available on our website, www.phenixcityal.us. If you have any questions, you may contact my office at 334-448-2760.

Sincerely,

Angel Moore, P.E. City Engineer

Cc: File

ositively Phenix City! positivelyphenixcity.com





SHOW O'LENE VENE ON THE END VENE OF THE PROPERTY OF THE PROPER

601 12th Street

Phenix City, AL 36867

Ph: 334-448-2760

Fx: 334-291-4848

phenixcitual.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. Mayor Pro Tem / 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

June 19, 2019

Wade Jurney Homes 6783 Veterans Parkway Columbus, GA 31909

Re: Notice of Violation

Hillcrest Estates Subdivision 312 Irish Court, 318 Irish Court, 320 Irish Court, 312 Irish Lane

Dear Property/Business Owner:

On June 17, 2019, 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) Repair/replace erosion and sediment control measures, including silt fence, as needed.
- 2) Clean trash and debris from site.
- 3) Clean sediment from street and gutter.
- 4) Clean waste concrete from ROW. Concrete trucks must washout at designated area.

Positively Phenix City!
positivelyphenixcity.com

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 and/or stop work order. This is pursuant to the Erosion and Sedimentation Control Policy of the City of Phenix City, amended by ordinance 2007-07. If you have any questions, please contact the Engineering Department at 334-448-2760.

Sincerely

Angel Moore, P.E.

City Engineer

Cc: File

From My John



City of Phenix City Engineering Department

EROSION AND SEDIMENT CONTROL INSPECTION REPORT

DATE: 6-17-14 TIME 10:45 PROJECT/SUBDIVISION: HIMEST
WEATHER: SUGNA CITY PERSONNEL: 60 Greene
REGULAR WEATHER EVENT / CITIZEN COMPLAINT OTHER
DAILY REPORT OF ACTIVITIES
Lot 318 - House is built, Finish work being done. Sitt force is in prace
Lot 320 - House is brink, finish work being done, sith force is in place
LOT 320 - House is bight, thrish work being done sitt force is in place
cut rear of lot.
LOT 306 - House is built. House wrup was recently installed. Silt force is in
Mile. Dirt is getting into road at front of lot.
Pluce. Dict is getting into conad at front of lot. Lot 304 - House is brilt. Finish work being done. Silt face is in Place.
10 Place. Piles of Town on lot.
Mylale. Vis of Trash on lot.
INSPECTION BY: BO Grewe

Post Construction Inspection (Examples)

Example of a Properly Maintained Detention Pond





ENGINEERING / PUBL

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. Mayor Pro Tem / 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

July 2, 2019

The Cirignano Family Trust Limited Partnership PO Box 1356 Bayville, NY 11709

Re: Goodwill Detention Pond

Dear Sir or Madam:

A representative of the City of Phenix City Engineering Department conducted a routine detention pond inspection for the above referenced site. During the inspection, no deficiencies were noted.

Thank you for your upkeep of this pond. Detention ponds are subject to an annual inspection. 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: Goodwill 180 DATE: 6-16-10 TIME 1'.23 DATE OF LAST INSPECTION: DESIGN DATA ON FILE: Y_N_ MAINTAINED BY:
PHOTOGRAHS TAKEN: Y X N NUMBER OF PONDS ONSITE: 1
ITEMS INSPECTED
VEGETATIVE COVER: Grass, Well's
SEDIMENT: NO Sellinelt
DEBRIS: No debris
FENCING: 6 Foot Chairlink
INLETS: Inlets are free of obstactions
EMERGENCY SPILLWAY: Rip rap Briegerd Spillway Is in good shape
COMMENTS/CORRECTIVE ACTION NEEDED: POND WAS (CLENT 1) MONCH
INSPECTED BY: BI Groene
TITLE: ENG TECH

Example of Pond Before and After Maintenance







EUSI / SYREENIS/EI

601 12th Street | Phenix City, AL 36867

Ph: 334-448-2760 | Fx: 334-291-4848

phenixcitual.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. Mayor Pro Tem / 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

August 6, 2019

Attn: Mr. Gil Dyer JD Real Properties 2990 North Lake Parkway Columbus, GA 31909

Re: The Villas of St. Andrews Detention Pond

Dear Mr. Dyer:

A representative of the City of Phenix City Engineering Department conducted a routine detention pond inspection for the above referenced site.

The following issue needs to be addressed:

1) All grass and vegetation must be kept at a minimum height of no more than 6 inches.

This detention pond falls under the Erosion and Sediment Control Policy of the City of Phenix City, amended by Ordinance No. 2007-07. A copy of this policy is available on the City's website: www.phenixcityal.us. The above deficiencies must be corrected within 15 days of receipt of this notification letter. Failure to comply could 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: VIIIUS 51. Andrews DATE: 7-19-19 TIME 2:55 DATE OF LAST INSPECTION: DESIGN DATA ON FILE: Y N MAINTAINED BY:
PHOTOGRAHS TAKEN: Y_X_N NUMBER OF PONDS ONSITE:
ITEMS INSPECTED
VEGETATIVE COVER: Grass, weeds
SEDIMENT: No visible sediment
DEBRIS: No debris
FENCING: 6 foot Chainlink
INLETS: Inlets free of obstructions
EMERGENCY SPILLWAY:
COMMENTS/CORRECTIVE ACTION NEEDED: Vegetation needs to be git to beight.
INSPECTED BY: BO Groene TITLE: ENG TECH

Example of Detention System Under Construction



Municipal Facility BMP Inspection Checklist (Example)

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name:	PHENIX CITY WATE		Location:		1100 32nd St. Phenix City		
Department: UTILITIES			Facility	Contact:	Mike Smisek		
Inspection Date:	12/09/19	Time: 9:30 an				Mike Smisek	
			Yes	- No	N/A	Comments	
Overall Facility							

	Yes	No	N/A	Comments
Overall Facility				
Work areas clear of trash, chemicals	$\overline{}$			
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	$\overline{}$			
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	\checkmark			
Driving and Parking Areas	-			
Stains or puddles of chemicals present		\checkmark		
Vehicle Wash Areas				
Foam or sheen present		✓		
Staining present at the facility outfall(s)			✓	
Other				

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 Engineering and Public Works

Fleet Maintenance Preliminary Worksheet

WO# 35678	Date 01/13/20	Equipment Code ENG-32	Equipment Name 2010 FORD EXPEDITION 1FMJU1F53AEA42972	Department 6 - Engineering		Odometer 93,976 M	Status Completed		
Service /	Repair Note	·s			T Y				
1	vehicle ne	eeds to be serviced.							
2	shifter is	nanging up and wor	nt go in gear, have to mash bra	ake super hard.					
3			- ·	·					
4	WC-								
5	REPLACED BRAKE SWITCH								
6	DUE SERV	/ICE AGAIN AT 9697	6						
Quantity	Part Num	ber Descripti	on		Unit Cost	Total Cost			
							·		
	<u> </u>								
				<u> </u>					
	-								
									
									
	ļ								
		ļ		<u> </u>					
Mechanic	s's Commen	ts:	Mechanic's Hours:	 .					
Mechanic	<u> </u>		Checked By:		Date Completed:				
	PM Item Co	de / Name	Eve	ery	Last Service Date	WO#	Odometer		
Part N	lumber	Description	· · · · · · · · · · · · · · · · · · ·	Quantity	7				

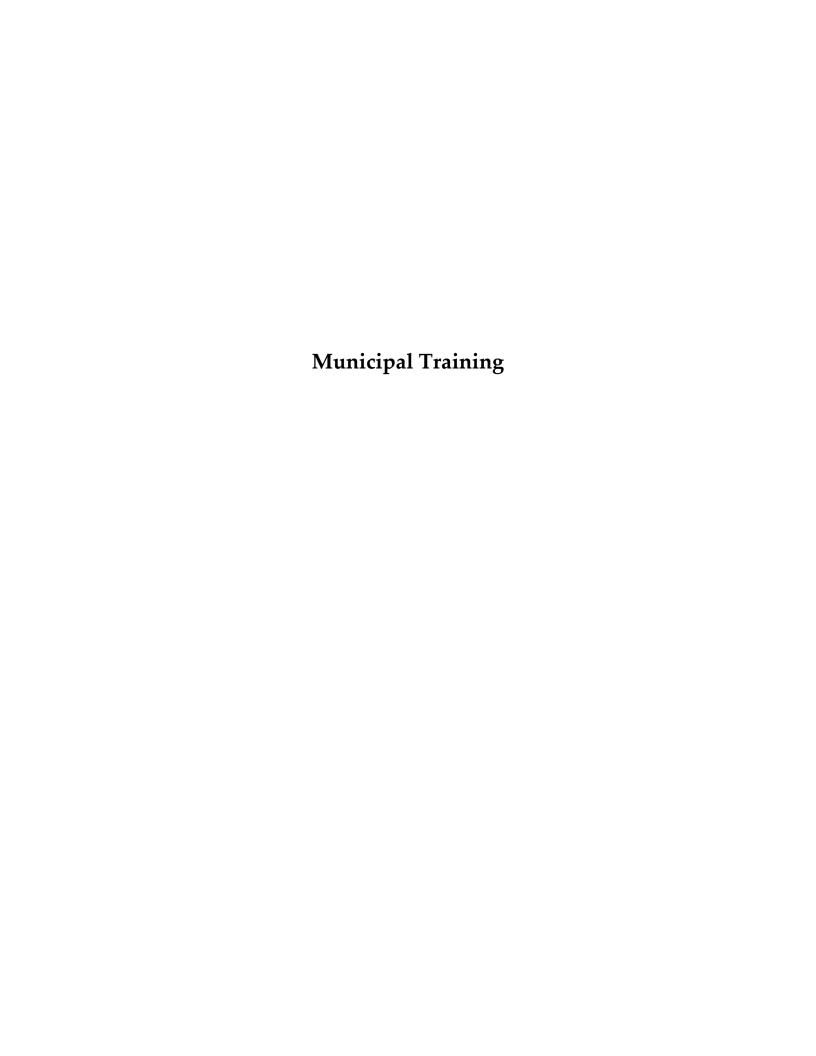
Part Number	Description	Quantity
15W40 (OT)	15w40	8.00

April 8, 2020

VEHICLE MAINTENANCE INSPECTION & CHECKLIST

VEHICLE/EQUIPMENT #: 3/	Employee IAME	Supervisor MIKS	
-------------------------	---------------	-----------------	--

3 -	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
OPERATOR	JAMES	JAMES	JAMES	AMES	-AMES-
DATE/TIME	9.16-19 8:05	9-30-18:05	10-7-19 8303	10-18-19 8:05	11-4-19-8:05
HOURS/MILEAGE	15919	16063	16083	16136	12430
HORN/ALARM			2		
HOSES/BOLTS	4				
TRACK/TIRES					
ATTACHMENTS					
OIL/GREASE					
BRAKES/LIGHTS					
FUEL GAL./MILEAGE					
SERVICE MILEAGE	17617	17617	17617	17617	17617





Municipal Training at the Idle Hour Community Center





Qualified Credentialed Inspector (QCI) Certifications and ADEM 2020 Nonpoint Source Management Program Conference Certificates



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 3/30/2021

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:

John Boren Greene

City of Phenix City

for satisfactory completion of

Online Refresher

Training

QCI No. T5719 Expires 7/19/2020

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:

Jimmy Cook City of Phenix City Engineering

for satisfactory completion of 8 instructional hours



Initial Training Class

July 25, 2019

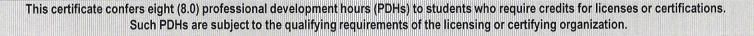


Instructor Names

John Carlton, Joel Seawell

QCI NO: T6191

EXPIRES: 07/25/2020





This certifies that

Richard Carlson of the City of Phenix City

has successfully completed the

QUALIFIED CREDENTIALED INSPECTOR TRAINING FOR CONSTRUCTION SITE STORMWATER MANAGEMENT

offered by the

HOME BUILDERS ASSOCIATION OF ALABAMA



02/20/2020

Signature

Date

Protecting our environment through stormwater management

HOME BUILDERS ASSOCIATION OF ALABAMA

QCI NUMBER 63899 VALID THROUGH FEBRUARY 27, 2021

Alabama Department of Environmental Management

CERTIFICATE OF ATTENDANCE

for

2020 Alabama Nonpoint Source Management Program Conference

January 9, 2020

Paul Chastain

ATTENDEE





Alabama Department of Environmental Management

CERTIFICATE OF ATTENDANCE

for

2020 Alabama Nonpoint Source Management Program Conference

January 9, 2020

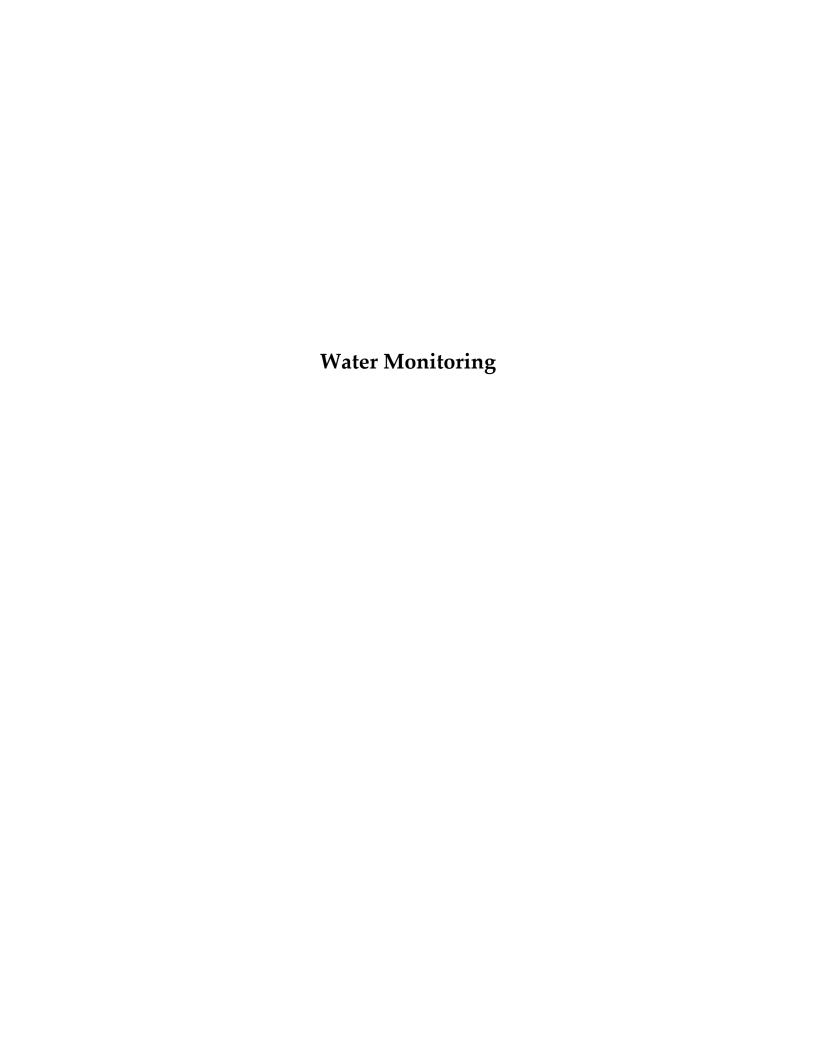
Bo Greene

ATTENDEE









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): Bo Greene	e, Paul Chastain, Jimmy (Cook
Contact Phone Number: 33		
	g. Little River Watch) Phenix Cit	y Engineering Department
Watershed: Chattahoo		
	ite Is Located: Russell Coun	ty, Alabama
of the nearest road. Indicat	Be very detailed. Include informate if it is upstream or downstream of a geo-reference. Call the AWW Of at Lakewood Drive	of a bridge, etc. Please submit a
	Longitude85.()33989
**************************************	rite below this line. AWW Office	use only. ***********
AWW Site Code Number*	HUC12 Nu	mber
•	ssigned by the Alabama Water Watch orst water monitoring data form. This S location of the site.	
Alabama	Alahama Water Watch	Toll Free: 1-888-844-4785

Alabama Water Watch

559 Devall Drive Auburn, AL 36849-5124

Email: awwprog@auburn.edu Website: www.alabamawaterwatch.org

Group Name: Phenix City Engineering Department online						
Collector(s): Paul Cha	stain, Bo Greene		Add	ress: .1206 7th A	venue	
City: Phenix City		State:_AL	Zip:_36	6867 Phone	e N°: (334) 448-2768	
Sample Date: 3/23/20		Sample Time: 9):20 AM		_{de:} 03015011	
Watershed: Chattahoo	ochee Waterbo	ody: Holland (Creek		_{& State:} Russell	
Sampling site location: Do	ownstream of bridge a	t Lakewood I	Drive			
	(Notify the AWW offi	ce about any chang	ges in sampling s	ite location.)		
Waterbody condition:	Adequate Depth	Inadequate	e Depth	Dry	No Access	
Tidally influenced rivers:	Rising Tide	Falling Tide	<u> </u>	Uncertain	No Applicable	
Variable	Value			Comme	ents	
Air Temperature	15.5_ °C	,	Measure a	air temperature be	fore water temperature.	
Water Temperature	17.0_ °C		Į.	Avoid touching ther	rmometer bulb.	
рН	7.0 Standard intern	national units		Record to neare	est 0.5 unit.	
Dissolved Oxygen (DO)	Rep 1: <u>7.4</u> ppm Rep 2	2: 7.6 _{ppm}	Make	sure two readings	are within 0.6 ppm.	
Specific Gravity / Salinity	S. G Salinity:	ppt	If salir	nity is present do not test for hardness.		
% Oxygen Saturation 7.5 Avg DO 78.07 % DO Sat			Estimat	e from chart found	d in the AWW manual.	
Total Alkalinity	5 # drops x 5 =	# drops x 5 =25 mg/L		Add drops until no more color change.		
Total Hardness	2 # drops x 10 =	# drops x 10 =20 mg/L Record		·	t produced final change.	
Turbidity	0 # 0.5 mL x 5 (50mL)	# 0.5 mL x 5 (50mL) =0 JTU		•	e volume used was 25 mL. if one addition of reagent	
	# 0.5 mL x 10 (25ml	# 0.5 mL x 10 (25mL) JTU		surpassed the turbidity of the sample.		
Secchi Depth	meter	·s	Do not reco	ord depth if disk hits	s bottom while visible.	
	e of rainfall, runoff within p or other animals in creek, o		rs, unusual	rs, unusual AWW Office Use		
Test site established	I for ADEM Permit AL	R040019				
163t 3ito Cotabilorio		-110-100-10				
Other Chemistry Tests				YSI Meter data,	Nitrates, Phosphate, etc.	
	the time of this water san			•		
using AWW techniques.	of each reagent used for the	ese tests. All u	ata entereu d	above the comme	hts section were obtained	
	Check for electror	nic signature	•			
w = w = w	<u> </u>			Monitor	signature	
Alabama	Alab	ama Water Wa	tch	Toll Fr	ree: 1-888-844-4785	
Water		559 Devall Dr.	ten		wwprog@auburn.edu	
Watch		iversity, AL 368	349-5124	Website: ww	w.alabamawaterwatch.org	
2013						

Group Name: Phenix City Engineering Department online					
Collector(s): Paul Chas		Addr	ress: .1206 7th Avenue		
City: Phenix City	State: AL	36	Phone N°: (334) 448-2768		
Sample Date: 12/19/19	Sample Time:		AWW Site Code: 03015011		
Watershed: Chattahoo	ochee _{Waterbody:} Holland	l Creek	County & State: Russell		
Sampling site location: Do	ownstream of bridge at Lakewood	Drive			
	(Notify the AWW office about any cha	nges in sampling si	te location.)		
Waterbody condition:	Adequate Depth Inadequa	te Depth	Dry No Access		
Tidally influenced rivers:	Rising Tide Falling Tide	de L	Uncertain No Applicable		
Variable	Value	<u> </u>	Comments		
Air Temperature	<u>11</u> ºc	Measure a	air temperature before water temperature.		
Water Temperature	_ 9.5_ ∘ე	Д	woid touching thermometer bulb.		
рН	Standard international units		Record to nearest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>8.6</u> ppm Rep 2: <u>9.0</u> ppm	Make	sure two readings are within 0.6 ppm.		
Specific Gravity / Salinity	S. G ppt	If salinity is present do not test for hardness.			
% Oxygen Saturation	8.8 Avg DO 77.54 % DO Sat	t Estimat	e from chart found in the AWW manual.		
Total Alkalinity	3		d drops until no more color change.		
Total Hardness	# drops x 10 = 20 mg/L	Record nu	imber of drops that produced final change.		
Turbidity	4 # 0.5 mL x 5 (50mL) = 40 JTL	11	n line only if sample volume used was 25 mL. (0) mL and 2 JTU if one addition of reagent		
Turbiaity	# 0.5 mL x 10 (25mL) JTU		rpassed the turbidity of the sample.		
Secchi Depth	meters	Do not reco	rd depth if disk hits bottom while visible.		
	e of rainfall, runoff within previous 24 hos or other animals in creek, etc.	urs, unusual	AWW Office Use		
	·				
Test site established	d for ADEM Permit ALR040019				
Other Chemistry Tests			YSI Meter data, Nitrates, Phosphate, etc.		
•	·		emistry Certification was current and that I		
confirmed the freshness o using AWW techniques.	of each reagent used for these tests. All	data entered a	above the Comments section were obtained		
using Avv vv teeningues.	Check for electronic signatur	e			
			Monitor signature		
Alabama		a a	Toll Free: 1-888-844-4785		
Water	Alabama Water W 559 Devall Dr.		Email: awwprog@auburn.edu		
Watch	Auburn University, AL 3		Website: www.alabamawaterwatch.org		
TT CLOTT	1012				

Group Name: Phenix City Engineering Department online					
Collector(s): Paul Chas	stain, Bo Greene		Addr	ess:1206 7th A	Avenue
City: Phenix City		State:_AL	_{Zip:_} 36	867Phon	e N°: (334) 448-2768
Sample Date: 9/30/19	S	ample Time: 1		AWW Site Cod	_{de:} 03015011
Watershed: Chattahoo		ody: Holland (County	& State: Russell
Sampling site location: Do	ownstream of bridge at	t Lakewood I	Drive		
	(Notify the AWW office	ce about any chang	ges in sampling si	te location.)	
Waterbody condition:	Adequate Depth	Inadequate	e Depth	Dry	No Access
Tidally influenced rivers:	Rising Tide	Falling Tide	·	Uncertain	✓ No Applicable
Variable	Value			Commo	ents
Air Temperature	21° _C		Measure a	ir temperature be	efore water temperature.
Water Temperature	_22.0_ °C		A	void touching the	rmometer bulb.
рН	7.0 _ Standard intern	ational units		Record to near	est 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: <u>5.0</u> ppm Rep 2	<u>2:</u> 5.2 _{ppm}	Make	sure two readings	s are within 0.6 ppm.
Specific Gravity / Salinity	S. G Salinity: _	ppt	If salinity is present do not test for hardness.		
% Oxygen Saturation	5.1 _ Avg DO58.6	Estimate	e from chart found	d in the AWW manual.	
Total Alkalinity 6 # drops x 5 = 30		30 _{mg/L}	Ado	d drops until no m	ore color change.
Total Hardness	4	40 mg/L	Record number of drops that produced final change.		
Turbidity	0 # 0.5 mL x 5 (50mL)	= <u>0</u> JTU		·	e volume used was 25 mL. if one addition of reagent
,	# 0.5 mL x 10 (25mL	.) JTU		passed the turbid	_
Secchi Depth	meter	S	Do not recor	rd depth if disk hit	s bottom while visible.
	e of rainfall, runoff within pos or other animals in creek, o		rs, unusual	AW	/W Office Use
	for ADEM Permit AL				
		.110-0010			
	_				
Other Chemistry Tests				VSI Meter data	Nitrates, Phosphate, etc.
· ·					
•	the time of this water san of each reagent used for the				
using AWW techniques.	_				
_	Check for electror	nic signature	•	Monitor	- cianatura
A I = la cusa e					r signature
Alabama	Alaba	ama Water Wa	tch	I Uli F	ree: 1-888-844-4785
Water	_	559 Devall Dr. iversity, AL 368	240_512/		awwprog@auburn.edu vw.alabamawaterwatch.org
Watch	iversity, AL 300) 4 5-3124		8	

Group Name: Phenix City Engineering Department online					
Collector(s): Paul Chas	stain, Bo Greene		Addre	ess: .1206 7th Avenue	e
City: Phenix City	State	e: AL	368	867 Phone N°: (3	334) 448-2768
Sample Date: <u>6/27/19</u>				AWW Site Code: 0	
Watershed: Chattahoo	ochee Waterbody: H	Iolland C	reek	County & State	:.Russell
Sampling site location: Do	ownstream of bridge at Lak	ewood D	rive		
	(Notify the AWW office abou	ıt any change	s in sampling site	e location.)	
Waterbody condition:	Adequate DepthIr	nadequate	Depth	DryNo	o Access
Tidally influenced rivers:	Rising Tide Fa	alling Tide		Uncertain VN	o Applicable
Variable	Value			Comments	
Air Temperature	29 ℃		Measure ai	r temperature before wa	ater temperature.
Water Temperature	_26.0_ °C		Av	oid touching thermome	ter bulb.
рН	7.0 Standard internation	al units		Record to nearest 0.5	unit.
Dissolved Oxygen (DO)	Rep 1: 6.8 ppm Rep 2: 6.0	6 _{ppm}	Make s	sure two readings are wi	thin 0.6 ppm.
Specific Gravity / Salinity	S. G Salinity:	ppt	If salinity is present do not test for hardness.		
% Oxygen Saturation	6.7_ Avg DO83.04_ %	DO Sat	Estimate from chart found in the AWW manual.		
Total Alkalinity	6	mg/L	Add	drops until no more col	or change.
Total Hardness	3 # drops x 10 = 30	mg/L	Record nun	mber of drops that produ	iced final change.
Turbidity	# 0.5 mL x 5 (50mL) =			line only if sample volum (0) mL and 2 JTU if one a	
1 01 0.0.07	# 0.5 mL x 10 (25mL)	JTU		passed the turbidity of th	_
Secchi Depth	meters		Do not record	d depth if disk hits botto	m while visible.
	e of rainfall, runoff within previou or other animals in creek, etc.	ıs 24 hours	, unusual	AWW Offic	ce Use
Test site established	I for ADEM Permit ALR04	10019			
Other Chemistry Tests				YSI Meter data, Nitrate	s, Phosphate, etc.
•	the time of this water sampling				
confirmed the freshness o using AWW techniques	of each reagent used for these te	sts. All da	ta entered al	pove the Comments sec	tion were obtained
Check for electronic signature.					
		5		Monitor signatur	re
Alabama		 .	-	Toll Free: 1-88	88-844-4785
Water	Alabama V 559 De		a h	Email: awwprog	auburn.edu
Watch		559 Devall Dr. n University, AL 36849-5124			

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): Bo Greene	e, Paul Chastain, Jimmy (Cook
Contact Phone Number: 33		
	g. Little River Watch) Phenix Cit	y Engineering Department
Watershed: Chattahoo		
	te Is Located: Russell Coun	ty, Alabama
of the nearest road. Indicat	Be very detailed. Include informate if it is upstream or downstream of a geo-reference. Call the AWW Of hop off Broad Street	of a bridge, etc. Please submit a
	Longitude85.0	002205
**************Do not w	rite below this line. AWW Office	use only. ***********
AWW Site Code Number*	HUC12 Nu	mber
<u> </u>	signed by the Alabama Water Watch orst water monitoring data form. This S location of the site.	
Alabama	Alabama Water Watch	Toll Free: 1-888-844-4785

559 Devall Drive

Auburn, AL 36849-5124

84

Alabama Water Watch

Email: awwprog@auburn.edu

Website: www.alabamawaterwatch.org

Group Name: Phenix City Engineering Department online						online
Collector(s): Paul Cha	stain, Bo Greene		Addr	ess: .1206 7th	Avenue	
City: Phenix City		State: AL	36	867 _{Pho}	one N°: (334)	448-2768
Sample Date: 3/23/20		Sample Time: 1	:45 PM	AWW Site C		
Watershed: Chattahoo	ochee Water	_{rbody:} Holland "	'Mill" Creek	Count	ty & State: Ru	
Sampling site location: Be	ehind Public Works S	Shop off Broad	Street			
	(Notify the AWW o	office about any chang	es in sampling sit	te location.)		
Waterbody condition:	Adequate Depth	Inadequate	Depth _	Dry	No Acc	ess
Tidally influenced rivers:	Rising Tide	Falling Tide	<u></u>	Uncertain	√ No App	olicable
Variable	Value			Comn	nents	
Air Temperature	190	°C	Measure a	ir temperature l	before water t	emperature.
Water Temperature	17.0	°C	Α	void touching th	nermometer b	ulb.
рН	7.5 Standard inte	ernational units		Record to nea	arest 0.5 unit.	
Dissolved Oxygen (DO)	Rep 1: <u>7.8</u> ppm Re	p 2: 7.8 ppm	Make sure two readings are within 0.6 ppm.			J.6 ppm.
Specific Gravity / Salinity	S. G Salinity	y: ppt	If salin	ity is present do	not test for h	ardness.
% Oxygen Saturation	7.8 Avg DO81	1.19_ % DO Sat	Estimate	e from chart fou	nd in the AW\	N manual.
Total Alkalinity	4 # drops x 5 =	20_ _{mg/L}		d drops until no		-
Total Hardness	3 # drops x 10 =			mber of drops th	•	
Turbidity	0 # 0.5 mL x 5 (50m			line only if sam (0) mL and 2 JTU		
Turbiancy	# 0.5 mL x 10 (25)	mL)JTU		passed the turbi		_
Secchi Depth	met	ters	Do not recor	rd depth if disk h	nits bottom wh	nile visible.
Comments : Note evidence smell, unusual color, cows		•	's, unusual	A	WW Office Us	e
		·				
Test site established	I for ADEM Permit	ALR040019				
Other Chemistry Tests				YSI Meter dat	a, Nitrates, Ph	osphate, etc.
I hereby declare that at				-		
confirmed the freshness of using AWW techniques.	of each reagent used for	these tests. All us	ata entered a	bove the com m	ients section	were optained
Check for electronic signature.						
				Monit	tor signature	
Alabama	<u> </u>	! \\/-tou\\/o	. L	Toll	l Free: 1-888-84	4-4785
Water	Alc	abama Water Wat 559 Devall Dr.	tcn	Email	l: awwprog@au	burn.edu
Watch	Auburn	n University, AL 36849-5124			www.alabamaw	

	artment			online
stain, Bo Greene		Addr	ess: .1206 7th	
	State: AL			one N°: (334) 448-2768
	Sample Time: 1	0:00AM	AWW Site Co	ode: 03020004
ochee Waterb	_{ody:} Holland "	'Mill" Creek		y & State: Russell
ehind Public Works Sh	nop off Broad	Street		
(Notify the AWW off	ice about any chang	es in sampling si	te location.)	
Adequate Depth	Inadequate	e Depth	Dry	No Access
Rising Tide	Falling Tide	<u> </u>	Uncertain	No Applicable
Value			Comn	nents
5.5°c	2	Measure a	ir temperature b	pefore water temperature.
6.0_ °C	2	A	void touching th	ermometer bulb.
7.0 Standard interr	national units		Record to nea	arest 0.5 unit.
Rep 1: 9.8 ppm Rep	2: 9.8 _{ppm}	Make	sure two reading	gs are within 0.6 ppm.
S. G Salinity:	nity: ppt If salir		nity is present do	not test for hardness.
9.8 Avg DO 79.2	25 _% DO Sat	Estimate	e from chart foui	nd in the AWW manual.
4	20 _{mg/L}		-	_
# drops x 10 = _	70 _{mg/L}	Record number of drops that produced final change.		
2 # 0.5 mL x 5 (50mL) = JTU			•	
# 0.5 mL x 10 (25mL) JTU		surpassed the turbidity of the sample.		
mete	rs	Do not reco	rd depth if disk h	its bottom while visible.
•		rs, unusual	AV	WW Office Use
HOLADEM LEHINGA	LNU40013			
			YSI Meter data	a, Nitrates, Phosphate, etc.
			-	
of each reagent used for the	iese tests. Ali u	ata entereu a	ibove the co min	ents section were obtained
Check for electro	nic signature	•		
			Monit	or signature
Alah	Water Wa	4- L	Toll	Free: 1-888-844-4785
		tcn	Email:	: awwprog@auburn.edu
		349-5124		vww.alabamawaterwatch.org
	stain, Bo Greene chind Public Works Shering Tide Value 5.5 °C 6.0 °C 7.0 Standard interrections Rep 1: 9.8 ppm Rep S. G. Salinity: 9.8 Avg DO 79.5 4 # drops x 5 = 7 # drops x 10 = 2 # 0.5 mL x 5 (50mL) # 0.5 mL x 10 (25m) meterection of this water said of each reagent used for the control of eac	State: AL Sample Time: 1 Dechee Waterbody: Holland " Dechind Public Works Shop off Broad (Notify the AWW office about any change) Adequate Depth Inadequate Rising Tide Falling Tide Value 5.5 °C 6.0 °C 7.0 Standard international units Rep 1: 9.8 ppm Rep 2: 9.8 ppm S. G. Salinity: ppt 9.8 Avg DO 79.25 % DO Sat 4 # drops x 5 = 20 mg/L 7 # drops x 10 = 70 mg/L 2 # 0.5 mL x 5 (50mL) = 20 JTU # 0.5 mL x 10 (25mL) JTU meters of rainfall, runoff within previous 24 hours or other animals in creek, etc. If or ADEM Permit ALR040019 Check for electronic signature Alabama Water Wat 559 Devall Dr.	Stain, Bo Greene State: AL Sample Time: 10:00AM Sample Time: 10:00AM Sample Time: 10:00AM State: AL Sample Time: 10:00AM Inadequate Depth Inadequate Inadequate Inadequate Indequate Indequate Indequate Indequate Indequate Indepuate Indequate Ind	Stain, Bo Greene State: AL State: 10:00AM Sample Time: 10:00AM Ochee Waterbody: Holland "Mill" Creek Counterbind Public Works Shop off Broad Street (Notify the AWW office about any changes in sampling site location.) Adequate Depth Inadequate Depth Dry Rising Tide Falling Tide Uncertain Value Comn 5.5 °C Measure air temperature beneficially and touching the sure two reading the su

Group Name: Phenix C	ity Engineering Depa	ırtment			online		
Collector(s): Paul Chas			Addre	ess: .1206 7th Aver	nue		
City: Phenix City		State: AL	368	B67 Phone N°	(334) 448-2768		
Sample Date: 9/30/19				AWW Site Code: _			
Watershed: Chattahoo	ochee waterbo	_{ody:} Holland "l	Mill" Creek		_{tate:} Russell		
Sampling site location: Be	ehind Public Works Sho	op off Broad	Street				
	(Notify the AWW offic	ce about any change	es in sampling site	e location.)	7		
Waterbody condition:	Adequate Depth	Inadequate	Depth	Dry	No Access		
Tidally influenced rivers:	Rising Tide	Falling Tide		Uncertain 🗸	No Applicable		
Variable	Value			Comments	; ;		
Air Temperature	_22.5_ °C		Measure ai	r temperature before	water temperature.		
Water Temperature	_22.0_° _C		Av	oid touching thermo	meter bulb.		
рН	7.0 Standard interna	ational units		Record to nearest 0).5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>4.4</u> ppm Rep 2	. 4.8 _{ppm}	Makes	sure two readings are	within 0.6 ppm.		
Specific Gravity / Salinity	S. G Salinity: _	G Salinity: ppt			ity is present do not test for hardness.		
% Oxygen Saturation	4.6 _ Avg DO52.9	4.6 Avg DO 52.92 % DO Sat Estimate from chart found			the AWW manual.		
Total Alkalinity	9 # drops x 5 =	9 # drops x 5 = 45 mg/L Add drops until no more color change.					
Total Hardness	4		Record nur	nber of drops that pro	oduced final change.		
Turbidity	# 0.5 mL x 5 (50mL) =				lume used was 25 mL. e addition of reagent		
Turbiare	# 0.5 mL x 10 (25mL)	.)JTU		passed the turbidity o	_		
Secchi Depth	meters	s	Do not record	d depth if disk hits bo	ttom while visible.		
	e of rainfall, runoff within pr		s, unusual	AWW C	Office Use		
	or other animals in creek, e		- 				
Test site established	I for ADEM Permit AL	.R040019					
Other Chemistry Tests				YSI Meter data, Nitr	ates, Phosphate, etc.		
•	the time of this water sam			-			
confirmed the freshness o using AWW techniques.	of each reagent used for the	ese tests. All da	ata entered al	pove the Comments s	section were obtained		
dallig Avv vv teeliiliques.	Check for electron	nic signature.					
				Monitor sign	ature		
Alabama			_	Toll Free:	1-888-844-4785		
Water		ama Water Wat 559 Devall Dr.	ch	Email: awwr	orog@auburn.edu		
Watch	Auburn Uni				labamawaterwatch.org		

Group Name: Phenix C	ity Engineering De	partment			online	
Collector(s): Paul Chas	stain, Bo Greene		Addr	ess: .1206 7th A	venue	
City: Phenix City		State: AL	36	867 Phone	N°: (334) 448-2768	
Sample Date: <u>6/27/19</u>		Sample Time: 9):00AM	AWW Site Code		
Watershed: Chattahoo	ochee Water	_{rbody:} Holland "	Mill" Creek	County 8	& State: Russell	
Sampling site location: Be	hind Public Works S	Shop off Broad	Street			
Waterbody condition:		office about any chang			<u> </u>	
·	Adequate Depth	Inadequate		Dry	No Access	
Tidally influenced rivers:	Rising Tide	Falling Tide	<u> </u>	Uncertain	No Applicable	
Variable	Value		<u> </u>	Comme	nts	
Air Temperature	24	°C	Measure a	ir temperature bef	ore water temperature.	
Water Temperature	_23.0_ <	°C	А	void touching ther	mometer bulb.	
рН	7.5 _ Standard inte	ernational units		Record to neare	st 0.5 unit.	
Dissolved Oxygen (DO)	Rep 1: 6.8 ppm Re	_{p 2:} 7.0 _{ppm}	Make	sure two readings a	are within 0.6 ppm.	
Specific Gravity / Salinity	S. G Salinity	y: ppt	ppt If salinity is present do not test for hardness.			
% Oxygen Saturation	6.9Avg DO8	0.9 % DO Sat	Sat Estimate from chart found in the AWW manual.			
Total Alkalinity	7 # drops x 5 =	35_ _{mg/L}	mg/L Add drops until no more color change.			
Total Hardness	4 # drops x 10 =			•	produced final change.	
Turbidity	# 0.5 mL x 5 (50m				volume used was 25 mL. one addition of reagent	
Tarolate	# 0.5 mL x 10 (25r	mL)JTU		passed the turbidit	_	
Secchi Depth	met	ters	Do not recor	rd depth if disk hits	bottom while visible.	
Comments : Note evidence smell, unusual color, cows	·	•	rs, unusual	AWV	N Office Use	
Test site established	for ADEM Permit	ALR040019				
Other Chemistry Tests				YSI Meter data, N	Nitrates, Phosphate, etc.	
I hereby declare that at t				•		
confirmed the freshness o using AWW techniques	T each reagent used for	these tests. All u	ata entereu a	bove the comme n	ts section were obtained	
	Check for electr	onic signature	•			
2 2 2				Monitor	signature	
A labama	Δi	abama Water Wa	tch	Toll Fre	ee: 1-888-844-4785	
Water	Air	559 Devall Dr.	ten	Email: av	wwprog@auburn.edu	
Watch	Auburn l	University, AL 368	349-5124	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): Bo Green	e, Paul Chastain, Jimmy	Cook
Contact Phone Number: 3		
	g. Little River Watch) Phenix Cit	y Engineering Department
Watershed: Chattahoo		
	ite Is Located: Russell Coun	ty, Alabama
of the nearest road. Indica map, a photo (optional) an	Be very detailed. Include informate if it is upstream or downstream d a geo-reference. Call the AWW Of nere Mill Creek enters the Pheni	of a bridge, etc. Please submit affice for assistance.
	Longitude85.(060822
*****Do not v	vrite below this line. AWW Office	e use only. ***********
AWW Site Code Number*	HUC12 Nu	ımber
•	ssigned by the Alabama Water Watch of the start water monitoring data form. This Solocation of the site.	
Alabama	Alabama Water Watch	Toll Free: 1-888-844-4785

559 Devall Drive

Auburn, AL 36849-5124

84

Email: awwprog@auburn.edu

Website: www.alabamawaterwatch.org

Group Name: Phenix C	ity Engineering De	partment				online	
Collector(s): Paul Chas	stain, Bo Greene			Address: .1206 7th Avenue			
City: Phenix City		State: AL	36	867 _{Pho}	ne N°: (334)	448-2768	
Sample Date: 3/23/20		Sample Time: 1					
Watershed: Chattahoo	ochee Wate	_{rbody:} Mill Cree	k	Count	y & State: Rus		
Sampling site location: In	close proximity to w	here Mill Creek	k enters the		MS4		
	(Notify the AWW	office about any chang	es in sampling sit	te location.)			
Waterbody condition:	Adequate Depth	Inadequate	Depth	Dry	No Acce	ess	
Tidally influenced rivers:	Rising Tide	Falling Tide	<u> </u>	Uncertain	√ No App	licable	
Variable	Value			Comm	nents		
Air Temperature	16	°C	Measure a	ir temperature b	efore water to	emperature.	
Water Temperature	16.0	°C	A	void touching th	ermometer bu	ılb.	
рН	7.0 Standard inte	ernational units		Record to nea	rest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>8.0</u> ppm Re	p 2: 8.4 ppm	Make	sure two reading	gs are within 0	0.6 ppm.	
Specific Gravity / Salinity	S. G Salinity	y: ppt	ity is present do	not test for ha	ardness.		
% Oxygen Saturation	8.2Avg DO83	8.2 Avg DO 83.58 % DO Sat Estimate from chart found in the AWW			V manual.		
Total Alkalinity	5 # drops x 5 =	25_ _{mg/L}	ng/L Add drops until no more color change.				
Total Hardness	3 # drops x 10 =		Record number of drops that produced final change.				
Turbidity	# 0.5 mL x 5 (50m			line only if samp (0) mL and 2 JTU			
ransiarcy	# 0.5 mL x 10 (25)	mL)JTU		passed the turbi		_	
Secchi Depth	met	te <u>rs</u>	Do not recor	rd depth if disk h	its bottom wh	ile visible.	
Comments: Note evidence	·	•	s, unusual	A۱	WW Office Use	e	
smell, unusual color, cows							
Test site established	I for ADEM Permit	ALR040019					
Other Chemistry Tests				YSI Meter data	a, Nitrates, Pho	osphate, etc.	
I hereby declare that at t	the time of this water :	sampling my AWV	N Water Che	mistry Certificat	ion was curre	ent and that I	
confirmed the freshness o	of each reagent used for	these tests. All da	ata entered a	bove the Comm	ents section v	were obtained	
using AWW techniques.	Check for electr	ronic signature					
	CHECK IOI EIECU	Offic Signature.	·	Monit	or signature		
Alabama					Free: 1-888-844	4-4785	
	Ala	abama Water Wat	tch			_	
Water	Auburn	559 Devall Dr. University, AL 368	240-5124		: awwprog@aub vww.alabamawa		
Watch	1042	Ulliversity, AL 300	147-2124				

Group Name: Phenix C	ity Engineering Depa	ırtment				online	
Collector(s): Paul Chas				Address: .1206 7th Avenue			
City: Phenix City		State: AL	36	8867 _{Pho}	one N°: (334)) 448-2768	
Sample Date: 12/19/19	Sa	ample Time: 3:	:00PM	AWW Site 0			
Watershed: Chattahoo	ochee _{Waterbo}	_{odv:} Mill Creel	k	Coun	ntv & State: Ru		
Sampling site location: <u>In</u>	close proximity to whe	ere Mill Creek	k enters the		MS4		
	(Notify the AWW office	ce about any change	es in sampling si	te location.)			
Waterbody condition:	Adequate Depth	Inadequate	Depth _	Dry	No Ac	cess	
Tidally influenced rivers:	Rising Tide	Falling Tide	<u>. L</u>	Uncertain	√ No Ap	plicable	
Variable	Value			Com	ments		
Air Temperature	<u>15</u> _ ℃		Measure a	ir temperature	before water	temperature.	
Water Temperature	_8.5_°c		A	woid touching t	hermometer b	oulb.	
рН	Standard intern	ational units		Record to ne	earest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>8.6</u> ppm Rep 2	2. 8.2 _{ppm}	Make	sure two readir	ngs are within	0.6 ppm.	
Specific Gravity / Salinity	S. G Salinity: _	ppt	ppt			nardness.	
% Oxygen Saturation	8.4Avg DO72.2	Avg DO 72.26 % DO Sat Estimate from chart found in the AWW man			W manual.		
Total Alkalinity	3 # drops x 5 =	15 mg/L	15 mg/L Add drops until no more color change.				
Total Hardness	4		Record number of drops that produced final change.				
Turbidity	# 0.5 mL x 5 (50mL)			line only if sam (0) mL and 2 JT	·=		
Turbiare	# 0.5 mL x 10 (25mL	.) JTU		passed the turb		_	
Secchi Depth	meters	s	Do not recor	rd depth if disk	hits bottom w	hile visible.	
	e of rainfall, runoff within pr		s, unusual		AWW Office Us	se	
	or other animals in creek, e						
Test site established	for ADEM Permit AL	.R040019					
Other Chemistry Tests				YSI Meter da	ta, Nitrates, Ph	nosphate, etc.	
I hereby declare that at f	the time of this water sam	npling my AWV	Water Che	emistry Certifica	ation was curr	ent and that I	
	of each reagent used for the	ese tests. All da	ata entered a	bove the Com r	nents section	were obtained	
using AWW techniques.	Check for electron	io cianoturo					
	CHECK for electron	IIC Signature.	1	Mon	itor signature		
Alahama					ll Free: 1-888-84	14-4785	
Alabama		ama Water Wat	tch				
Water		559 Devall Dr.	040 E134		il: awwprog@au www.alabamaw		
Watch	Aubum om	iversity, AL 368	49-3124	***************************************	W W W .uiu.au.	vater water o. 8	

Group Name: Phenix C	ity Engineering De	partment			online		
Collector(s): Paul Chas	stain, Bo Greene			Address: .1206 7th Avenue			
City: Phenix City		State: AL	36	867 Phone N	_{1°:} (334) 448-2768		
Sample Date: 9/30/19		Sample Time:			03020001		
Watershed: Chattahoo	ochee Wate	rbody: Mill Cree	·k	County & S	_{State:} Russell		
Sampling site location: In	close proximity to w	here Mill Creel	k enters the		4		
		office about any chang					
Waterbody condition:	Adequate Depth	Inadequate	e Depth	Dry _	No Access		
Tidally influenced rivers:	Rising Tide	Falling Tide	<u> </u>	Uncertain ✓	No Applicable		
Variable	Value			Commen	ts		
Air Temperature		°C	Measure a	ir temperature befor	re water temperature.		
Water Temperature		°C	A	woid touching thermo	ometer bulb.		
рН	Standard into	ernational units		Record to nearest	0.5 unit.		
Dissolved Oxygen (DO)	Rep 1:ppm Re	ep 2:ppm	Make	sure two readings ar	e within 0.6 ppm.		
Specific Gravity / Salinity	S. G Salinity	y: ppt	If salin	nity is present do not	test for hardness.		
% Oxygen Saturation	Avg DO	% DO Sat	t Estimate from chart found in the AWW manual.				
Total Alkalinity	# drops x 5 =	mg/L	Add drops until no more color change.				
Total Hardness	# drops x 10 =	= mg/L	Record number of drops that produced final change.				
Turbidity	# 0.5 mL x 5 (50m	nL) = JTU		•	olume used was 25 mL. one addition of reagent		
Tursiary	# 0.5 mL x 10 (25	imL)JTU		passed the turbidity	_		
Secchi Depth	me [.] me [.]	ters	Do not reco	rd depth if disk hits b	ottom while visible.		
Comments : Note evidence smell, unusual color, cows	•	•	rs, unusual	AWW	Office Use		
		·					
Test site established NO WATER UNABL		ALK040019					
Other Chemistry Tests				YSI Meter data, Nit	trates, Phosphate, etc.		
I hereby declare that at t							
confirmed the freshness o using AWW techniques	t each reagent used for	these tests. All a	ata entereo a	bove the Comments	section were obtained		
	Check for electr	ronic signature	•				
W				Monitor sig	gnature		
Alabama	Δ1	abama Water Wa	tch	Toll Free	: 1-888-844-4785		
Water		559 Devall Dr.	ttii	Email: awv	vprog@auburn.edu		
Watch	Auburn	University, AL 368	349-5124	Website: www.alabamawaterwatch.org			

Group Name: Phenix C	Group Name: Phenix City Engineering Department online						
Collector(s): Paul Cha	stain, Bo Greene			ess: .1206 7th			
City: Phenix City		State: AL	 _{Zip:_} 36	8867 _{Pho}	one N°: (334)) 448-2768	
Sample Date: 6/27/19		Sample Time: 1					
Watershed: Chattahoo	ochee Water	_{body:} Mill Cree	k	Count	ty & State: Ru	ussell	
Sampling site location: In	close proximity to w	here Mill Creel	k enters the	Phenix City	MS4		
Waterbody condition:	Adequate Depth	office about any chang			No Acc		
Tidally influenced rivers:	Rising Tide	Falling Tide	· F	Dry Uncertain	一	plicable	
Variable	Value				ments		
Air Temperature	26.5 c	°C	Measure a	nir temperature l	before water	temperature.	
Water Temperature	23.0	°C	A	woid touching th	nermometer b	oulb.	
рН	7.0 Standard inte	ernational units		Record to nea	arest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>5.4</u> ppm Rep	p 2: 5.6 ppm	Make	sure two readin	gs are within	0.6 ppm.	
Specific Gravity / Salinity	S. G Salinity	/: ppt	If salin	ty is present do not test for hardness.			
% Oxygen Saturation	5.5 Avg DO 64	1.49_% DO Sat	9 % DO Sat Estimate from chart found in the AWW manual.			W manual.	
Total Alkalinity	7	# drops x 5 = 35 mg/L Add drops until no more color change.			nange.		
Total Hardness	4 # drops x 10 =		Record nu	mber of drops tl	hat produced	final change.	
Turbidity	# 0.5 mL x 5 (50m			line only if sam (0) mL and 2 JTU	•		
,	# 0.5 mL x 10 (25r	mL)JTU		rpassed the turb		_	
Secchi Depth	met	:ers	Do not reco	rd depth if disk h	nits bottom w	hile visible.	
Comments : Note evidence smell, unusual color, cows		-	s, unusual	A	WW Office Us	se	
Test site established							
	11017.122	12.10.100.0					
Other Chemistry Tests				YSI Meter dat	a, Nitrates, Pl	nosphate, etc.	
I hereby declare that at				· · · · · · · · · · · · · · · · · · ·			
confirmed the freshness of using AWW techniques.	of each reagent used for t	these tests. All d	ata entered a	above the Comm	nents section	were obtained	
asing / it is a search question	Check for electro	onic signature	•				
W Sil Gar				Monit	tor signature		
Alabama	Ala	abama Water Wa	tch	Toll	l Free: 1-888-84	14-4785	
Water		559 Devall Dr.	ici i		l: awwprog@au		
Watch	Auburn U	Jniversity, AL 368	349-5124	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): Bo Greene	e, Paul Chastain, Jimmy	Cook
Contact Phone Number: 35		
AWW Group Affiliation (e. Waterbody: Mill Creek	g. Little River Watch) Phenix Cit	y Engineering Department
Watershed: Chattahoo	chee River	
	te Is Located: Russell Coun	ty, Alabama
of the nearest road. Indicat map, a photo (optional) and	Be very detailed. Include informate if it is upstream or downstream a geo-reference. Call the AWW Of point that Mill Creek discharge	of a bridge, etc. Please submit a fice for assistance.
	Longitude85.(030772
**************Do not w	rite below this line. AWW Office	e use only. ************
AWW Site Code Number*	HUC12 Nu	mber
•	signed by the Alabama Water Watch of the st water monitoring data form. This S location of the site.	
Alabama	Alabama Water Watch	Toll Free: 1-888-844-4785

559 Devall Drive

Auburn, AL 36849-5124

84

_____Alabama Water Watch

Email: awwprog@auburn.edu

Website: www.alabamawaterwatch.org

Group Name: Phenix C	ity Engineering Dep	partment				online	
Collector(s): Paul Chas	stain, Bo Greene			ess: .1206 7th			
City: Phenix City		State: AL	 36	8867 _{Pho}	one N°: (334)) 448-2768	
Sample Date: 3/23/20		Sample Time: 10	0:00 AM				
Watershed: Chattahoo	ochee Waterl	_{body:} Mill Creel	k	Count	ty & State: Ru	ussell	
Sampling site location: In					lolland Cree	∍k 	
		ffice about any change					
Waterbody condition:	Adequate Depth	Inadequate	Depth	Dry	No Acc	cess	
Tidally influenced rivers:	Rising Tide	Falling Tide	<u> </u>	Uncertain	√ No Ap	plicable	
Variable	Value			Comr	ments		
Air Temperature	15.5_ º(C	Measure a	air temperature l	before water	temperature.	
Water Temperature	16.5o	С	A	woid touching th	nermometer b	ulb.	
рН	7.0 Standard inter	rnational units		Record to nea	arest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>7.6 ppm</u> Rep	2: <u>7.8 _{ppm}</u>	Make	sure two readin	igs are within	0.6 ppm.	
Specific Gravity / Salinity	S. G Salinity				ity is present do not test for hardness.		
% Oxygen Saturation	7.7 Avg DO79.	7.7 Avg DO 79.32 % DO Sat Estimate from cl			ınd in the AW	W manual.	
Total Alkalinity	5 # drops x 5 = 25 mg/L Add drops until no more color change.			iange.			
Total Hardness	3		Record nu	mber of drops tl	hat produced	final change.	
Turbidity	# 0.5 mL x 5 (50mL			line only if sam (0) mL and 2 JTU	-		
, or orally	# 0.5 mL x 10 (25m	nL)JTU		rpassed the turb		_	
Secchi Depth	mete	ers	Do not recor	rd depth if disk h	nits bottom w	hile visible.	
Comments : Note evidence smell, unusual color, cows		-	s, unusual	A	WW Office Us	se	
Test site established	for ADEM Permit A	LR040019					
Other Chemistry Tests				YSI Meter dat	:a, Nitrates, Ph	nosphate, etc.	
I hereby declare that at t				•			
confirmed the freshness o using AWW techniques.	of each reagent used for t	hese tests. All da	ata entered a	bove the Comm	nents section	were obtained	
	Check for electro	onic signature.					
				Moni	tor signature		
Alabama				Tol	ll Free: 1-888-84	14-4785	
Water	Alai	bama Water Wat 559 Devall Dr.	tch	Email	l: awwprog@au	ıhıırn edu	
Watch	Auburn U	Iniversity, AL 368	349-5124		www.alabamaw		
VV CLOIT	2012	Walti					

Group Name: Phenix C	ity Engineering De	partment			·	online
Collector(s): Paul Chas	stain, Bo Greene			ess: .1206 7th		
City: Phenix City		State: AL	36	8867 _{Pho}	one N°: (334) 4	148-2768
Sample Date: 12/19/19		Sample Time: 2	:30PM			
Watershed: Chattahoo	ochee Wate	rbody: Mill Cree	k	Count	ty & State: Rus	sell
Sampling site location: In	close proximity to th	ne point that Mi	Il Creek dis	scharges to H	olland Creek	<u> </u>
Waterbody condition:		office about any chang			<u> </u>	
,	Adequate Depth	Inadequate		Dry	No Acce	
Tidally influenced rivers:	Rising Tide	Falling Tide	<u> </u>	Uncertain	V No Appli	icable
Variable	Value	!		Comr	ments	
Air Temperature	9	°C	Measure a	ir temperature l	before water te	mperature.
Water Temperature	8.0	°C	A	woid touching th	nermometer bul	lb.
рН	7.0 Standard inte	ernational units		Record to nea	arest 0.5 unit.	
Dissolved Oxygen (DO)	Rep 1: <u>9.4</u> ppm Re	p 2: 9.6 ppm	Make	sure two readin	gs are within 0.	6 ppm.
Specific Gravity / Salinity	S. G Salinit	y: ppt	If salinity is present do not test for hardness			rdness.
% Oxygen Saturation	9.5 Avg DO 80	0.74_ % DO Sat	Sat Estimate from chart found in the AWW manual.			manual.
Total Alkalinity	4 # drops x 5 =	20 _{mg/L}	g/L Add drops until no more color change.			nge.
Total Hardness	4		Record nu	mber of drops tl	hat produced fir	nal change.
Turbidity	3 # 0.5 mL x 5 (50m			line only if sam (0) mL and 2 JTU		
Tarolate	# 0.5 mL x 10 (25	imL)JTU		passed the turb		_
Secchi Depth	me	ters	Do not recor	rd depth if disk h	nits bottom whil	le visible.
Comments : Note evidence smell, unusual color, cows		•	s, unusual	A	WW Office Use	
Test site established	for ADEM Permit	ALR040019				
Other Chemistry Tests				YSI Meter dat	a, Nitrates, Pho	sphate, etc.
I hereby declare that at t				•		
confirmed the freshness o using AWW techniques.	f each reagent used for	these tests. All u	ata entereu a	bove the com in	ients section w	ere optaineu
	Check for electr	ronic signature	•			
Section 1				Monit	tor signature	
Alabama		abama Water Wat	t ch	Toll	l Free: 1-888-844-	-4785
Water		559 Devall Dr.	LCII	Email	l: awwprog@aubu	urn.edu
Watch	Auburn	University, AL 368	349-5124	Website: v	www.alabamawat	terwatch.org

Group Name: Phenix C	ity Engineering De	partment				online	
Collector(s): Paul Chas	stain, Bo Greene			Address: .1206 7th Avenue			
City: Phenix City		State: AL	36	867 _{Pho}	one N°: (334)) 448-2768	
Sample Date: 9/30/19		Sample Time: 9	:00AM				
Watershed: Chattahoo	ochee Wate	_{rbody:} Mill Cree	k	Coun	nty & State: Ru	ussell	
Sampling site location: In	close proximity to the	ne point that Mi	II Creek dis		Iolland Cree	ek	
	(Notify the AWW	office about any chang	es in sampling sit	te location.)			
Waterbody condition:	Adequate Depth	Inadequate	Depth	Dry	No Acc	cess	
Tidally influenced rivers:	Rising Tide	Falling Tide	· _	Uncertain	√ No Ap	plicable	
Variable	Value			Comi	ments		
Air Temperature	_18.5_	°C	Measure a	ir temperature	before water	temperature.	
Water Temperature	21.5	°C	A	void touching tl	hermometer b	oulb.	
рН	7.0 Standard inte	ernational units		Record to ne	earest 0.5 unit.		
Dissolved Oxygen (DO)	Rep 1: <u>4.4</u> ppm Re	p 2: 4.8 ppm	Make	sure two readir	ngs are within	0.6 ppm.	
Specific Gravity / Salinity	S. G Salinity	y: ppt	ppt If salinity is present do not test for hardnes			nardness.	
% Oxygen Saturation	4.6 _ Avg DO52	Avg DO 52.41 % DO Sat Estimate from chart found in the AWW man			W manual.		
Total Alkalinity	9 # drops x 5 =	# drops x 5 = $\frac{45}{\text{mg/L}}$ Add drops until no more color change.				-	
Total Hardness	4		Record nu	mber of drops t	:hat produced	final change.	
Turbidity	0 # 0.5 mL x 5 (50m			line only if sam (0) mL and 2 JT	·=		
Tarwiare	# 0.5 mL x 10 (25	mL)JTU		passed the turb		_	
Secchi Depth	me	ters	Do not recor	rd depth if disk	hits bottom w	hile visible.	
Comments: Note evidence	· ·	•	rs, unusual	Δ	AWW Office Us	se	
smell, unusual color, cows							
Test site established	I for ADEM Permit	ALR040019					
Other Chemistry Tests				YSI Meter da	ta, Nitrates, Ph	nosphate, etc.	
I hereby declare that at t	the time of this water :	sampling my AWV	N Water Che	mistry Certifica	ation was curr	ent and that I	
confirmed the freshness o	of each reagent used for	these tests. All d	ata entered a	bove the Com r	nents section	were obtained	
using AWW techniques.	Check for electr	ronic signature.					
			·	Moni	itor signature		
Alabama				To	ll Free: 1-888-84	14-4785	
Water	Ala	abama Water Wat 559 Devall Dr.	tch	Emai	il: awwprog@au	ihurn adu	
Watch	Auburn	University, AL 368	349-5124		www.alabamaw		
VValori	1012						

		artment			Group Name: Phenix City Engineering Department online					
Collector(s): Paul Chas			Addr	ess: .1206 7	'th Avenue					
City: Phenix City		State:_AL	Zip:_36	8867 _P	Phone N°: (334					
Sample Date: <u>6/27/19</u>		Sample Time: 10	0:30 AM							
Watershed: Chattahoo	ochee _{Waterb}	o _{odv:} Mill Creel	k	Cou	unty & State: Rเ	ussell				
Sampling site location: <u>In</u>	close proximity to the	point that Mil	II Creek dis	scharges to	Holland Cree	ek				
	(Notify the AWW offi	ice about any change	es in sampling si	te location.)						
Waterbody condition:	Adequate Depth	Inadequate	Depth	Dry	No Ac	cess				
Tidally influenced rivers:	Rising Tide	Falling Tide	: <u>L</u>	Uncertain	√ No Ap	plicable				
Variable	Value			Cor	mments					
Air Temperature	26° _C		Measure a	ir temperatur	re before water	temperature.				
Water Temperature	_24.0_ °C		А	woid touching	g thermometer b	oulb.				
рН	7.5Standard interr	national units		Record to	nearest 0.5 unit.					
Dissolved Oxygen (DO)	Rep 1: <u>6.4</u> ppm Rep 2	2: 6.6 _{ppm}	Make	sure two read	dings are within	0.6 ppm.				
Specific Gravity / Salinity	S. G Salinity:	ppt	If salin	nity is present	ity is present do not test for hardness.					
% Oxygen Saturation	6.5Avg DO77.6	66_ _% DO Sat	Estimat	e from chart f	found in the AW	W manual.				
Total Alkalinity	6 # drops x 5 =	30 _{mg/L}		-	no more color ch	-				
Total Hardness	4	40 mg/L	Record nu	mber of drop	s that produced	final change.				
Turbidity	0 # 0.5 mL x 5 (50mL)) = <u>0</u> JTU		•	ample volume us JTU if one addit					
,	# 0.5 mL x 10 (25ml	L)JTU			urbidity of the sa					
Secchi Depth	meter			rd depth if dis	sk hits bottom w	hile visible.				
	e of rainfall, runoff within p s or other animals in creek,		s, unusual		AWW Office Us	se				
Test site established	d for ADEM Permit Al	LK040019								
Other Chemistry Tests				YSI Meter o	data, Nitrates, Pl	nosphate, etc.				
	the time of this water sar			•						
confirmed the freshness o using AWW techniques.	of each reagent used for th	iese tests. Ali aa	ata entereo a	above tne co r	nments section	were obtained				
Lasing / 1111	Check for electron	nic signature.	•							
				Mo	onitor signature					
Alabama	Alak	···· = Watar Wat	· .l.	٦	Toll Free: 1-888-84	44-4785				
Water		oama Water Wat 559 Devall Dr.	ich	En	nail: awwprog@au	uburn.edu				
Watch	Auburn Ur	niversity, AL 368	49-5124		e: www.alabamav					

Alabama Office 334/745-0055 or 800/662-1584 Fax: 334/745-3095 TBrantly @ AuburnEnvironmental.com 6485 LEE ROAD 54 AUBURN, AL 36830

Colorado Office 1-800-408-0083 MWallace@AuburnEnvironmental.com PO BOX 271716 FT. COLLINS. CO 80527

REPORT OF ANALYSIS

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

SAMPLE DATE/TIME: 25 MAR 20/0942 SAMPLE # 142962/142963/142964/142965

SAMPLE TYPE: CREEK SAMPLE LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.0 mg/l	SM5210B	AB	03-26-20	1940
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	ВЈН	03-26-20	1306
TKN	<1.00 mg/l	A4500-NH3-D	CXS	04-08-20	0730
NITRATE+NITRITE	<0.500 mg/l	300.0	TM	03-31-20	1845
TOTAL PHOSPHORUS	0.0761 mg/l	SM4500-P-E	MS	04-03-20	1222

SAMPLE DATE/TIME: 25 MAR 20/1019 SAMPLE # 142966/142967/142968/142969 SAMPLE TYPE: CREEK SAMPLE

LOCATION: 2 - HOLLAND "MILL" CREEK **PARAMETER ANALYSIS METHOD** ANALYST DATE TIME **CBOD** 3.3 mg/lSM5210B AB 03-26-20 1940 **ORTHOPHOSPHATE** < 0.100 mg/lE300.0 BJH 03-26-20 1334 TKN

<1.00 mg/l A4500-NH3-D 04-08-20 CXS 0732 NITRATE+NITRITE < 0.500 mg/l03-31-20 300.0 TM 1905 TOTAL PHOSPHORUS 0.106 mg/l SM4500-P-E MS 04-03-20 1222

SAMPLE DATE/TIME: 25 MAR 20/0902 SAMPLE # 142970/142971/142972/142973

SAMPLE TYPE: CREEK SAMPLE LOCATION: 3 – MILL CREEK

PARAMETER ANALYSIS METHOD ANALYST DATE TIME **CBOD** 1.4 mg/l SM5210B AB 03-26-20 1940 **ORTHOPHOSPHATE** <0.100 mg/l E300.0 BJH 03-26-20 1403 TKN <1.00 mg/l A4500-NH3-D CXS 04-08-20 0734 NITRATE+NITRITE <0.500 mg/l 300.0 BJH 04-01-20 1205 TOTAL PHOSPHORUS 0.0761 mg/l SM4500-P-E MS 04-03-20 1222

SAMPLE DATE/TIME: 25 MAR 20/1003 SAMPLE # 142974/142975/142976/142977 SAMPLE TYPE: CREEK SAMPLE LOCATION: 4 - MILL CREEK

		DO OTTOTAL I THEE CHEETE			
PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.0 mg/l	SM5210B	AB	03-26-20	1940
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	ВЈН	03-26-20	1432
TKN	<1.00 mg/l	A4500-NH3-D	CXS	04-08-20	0736
NITRATE+NITRITE	<0.500 mg/l	300.0	ВЈН	04-01-20	1225
TOTAL PHOSPHORUS	0.0575 mg/l	SM4500-P-E	MS	04-03-20	1222

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:



ACT PROJECT NO.: 404-1000

STUDY: NPDES

CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 1 - HOLLAND CREEK

TRANSFER TO: AUBURN ENVIRONMENTAL 6485 LEE ROAD 54

AUBURN, AL 36830 (334) 745-0055

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
142962	CBOD: PRESERVED 4°C	3-25-20	9:42	Во
142463	ORTHOPHOSPHATE: PRESERVED 4°C	3-25-20	9:43	во
142964	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	3-25-20	9:42	Bo
142965	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	3-25-20	9:42	Bo

SAMPLE CHAIN OF CUSTODY:		COURIER YES NO
TRANSFERRED BY: X Bo Geese	DATE/TIME: 3-25-20 10:	35
RECEIVED BY: X Ob	DATE/TIME: 25/NG-22	X
TRANSFERRED BY: X	DATE/TIME: 1:35P	
RECEIVED BY: X	DATE/TIME: 25 Marz	0 2
(LABORATORY) PLEASE DO NOT WRITE BEL	2	W
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 44°C SAMPLES STORED IN REFRIGERATOR ID#: 26°7 THERMOMET SHIPPED BY: 45°C TRACKING #: 46°C	er id#: 372	
pH Calibration :pH 4pH 7pH 10		



ACT PROJECT NO.: 404-1000

STUDY: NPDES

CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 2 - HOLLAND "MILL" CREEK

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
142966	CBOD: PRESERVED 4°C	3-25-20	10:19	Bo
142967	ORTHOPHOSPHATE: PRESERVED 4°C	3-45-20	10:20	Bo
142968	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	3-25-20	10:19	Bo
142969	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	3-25-20	10:14	Во

SAMPLE CHAIN OF CUSTODY:		YES NO
TRANSFERRED BY: X BO GREEN	DATE/TIME: 3-25-20 10.34	1
RECEIVED BY: X	DATE/TIME: 25/Marzo	1
TRANSFERRED BY: X	DATE/TIME: 1:35 PM	
RECEIVED BY: X	DATE/TIME: 25Marz	
(LABORATORY) PLEASE DO NOT WRITE BELO	211.	N
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 44°C SAMPLES STORED IN REFRIGERATOR ID#: 26°C THERMOMETER SHIPPED BY: AC T TRACKING #: 4	R ID#: 332	
pH Calibration :pH 4pH 7pH 10		



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 3 - MILL CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
The second secon	CBOD: PRESERVED 4°C	3-25-20	9:02	Bo
142971	ORTHOPHOSPHATE: PRESERVED 4°C	3-25-20	9:02	B6
142972	NITRATE+NITRITE, TKN: PRESERVED 4°C,	3-25-20	9:03	Bo
147 973	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	3-25-20	9:03	Bo

SAMPLE CHAIN OF CUSTODY:	COURI YES	
TRANSFERRED BY: X & Greene	DATE/TIME: 3-25-20 10:33	
RECEIVED BY: X	DATE/TIME: 25/Mar 20	×
TRANSFERRED BY: X	DATE/TIME: 25/4w20	×
RECEIVED BY: X (LABORATORY) PLEASE DO NOT WRITE	2'UVP11	
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 44 SAMPLES STORED IN REFRIGERATOR ID#: 67 THERM SHIPPED BY: A C T TRACKING #: 6	OMETER ID#: 322	
pH Calibration :pH 4pH 7pH 10		

COLIDIED



ACT PROJECT NO.: 404-1000

STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 4 - MILL CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
11429724	CBOD: PRESERVED 4°C	3-25-20	16:03	Bo
142975	ORTHOPHOSPHATE: PRESERVED 4°C	3-25-20	10:.03	Во
142976	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	3-25-20	10:03	Во
142978	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	3-25-20	10'.03	Во

SAMPLE CHAIN OF CUSTODY:		YES NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 3-25-20 10:35	
RECEIVED BY: X	DATE/TIME: 25/1468 20	
TRANSFERRED BY: X	DATE/TIME:135PX/	
RECEIVED BY: X (LABORATORY)	DATE/TIME: 25/Mar26	× ×
PLEASE DO NOT WRITE BELO	WTHIS LINE 3-43 HV	1
SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER SHIPPED BY: TRACKING #:	ID#: <u>\$1</u> 2	
pH Calibration :pH 4pH 7pH 10		



Alabama Office 334/745-0055 or 800/662-1584 Fax: 334/745-3095 TBrantly@ AuburnEnvironmental.com 6485 LEE ROAD 54 AUBURN, AL 36830

Colorado Office 1-800-408-0083 MWallace@AuburnEnvironmental.com PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

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

SAMPLE DATE/TIME: 18 DEC 19/0904

SAMPLE TYPE: CREEK SAMPLE LOCATION: 1 – HOLLAND CREEK

AMPLE # 141701/141702/141703/141704		LOCATION: 1 – HOLLAND CREEK				
PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME	
CBOD	2.8 mg/l	SM5210B	AB	12-21-19	1705	
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	ВЈН	12-25-19	0042	
TKN	<1.00 mg/l	A4500-NH3-D	DNS	12-30-19	1720	
NITRATE+NITRITE	<0.500 mg/l	300.0	ВЈН	12-27-19	1828	
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	DNS	12-27-19	2114	
TOTAL PHOSPHORUS	10.500 mg/1	DITT TO CO T				

SAMPLE DATE/TIME: 18 DEC 19/0945 SAMPLE # 141705/141706/141707/141708 SAMPLE TYPE: CREEK SAMPLE LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.5 mg/l	SM5210B	AB	12-19-19	1825
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	ВЈН	12-25-19	0112
TKN	<1.00 mg/l	A4500-NH3-D	DNS	12-30-19	1722
NITRATE+NITRITE	<0.500 mg/l	300.0	ВЈН	12-27-19	1858
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	DNS	12-27-19	2118

SAMPLE DATE/TIME: 18 DEC 19/0933

SAMPLE TYPE: CREEK SAMPLE LOCATION: 3 – MILL CREEK

SAMPLE # 141709/138510/138511/138512

TIME **ANALYST** DATE **METHOD ANALYSIS PARAMETER** 1705 12-21-19 AB 3.3 mg/l SM5210B CBOD 12-25-19 0143 BJH E300.0 <0.100 mg/l **ORTHOPHOSPHATE** 1728 12-30-19 DNS A4500-NH3-D <1.00 mg/l **TKN** BJH 12-27-19 1929 <0.500 mg/l 300.0 NITRATE+NITRITE 12-27-19 2127 SM4500-P-E DNS <0.500 mg/l TOTAL PHOSPHORUS

SAMPLE DATE/TIME: 18 DEC 19/0914 SAMPLE # 141703/141714/141715/141716 SAMPLE TYPE: CREEK SAMPLE LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.0 mg/l	SM5210B	AB	12-21-19	1705
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	ВЈН	12-25-19	0213
TKN	<1.00 mg/l	A4500-NH3-D	DNS	12-30-19	1730
NITRATE+NITRITE	<0.500 mg/l	300.0	ВЈН	12-27-19	1959
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	DNS	12-27-19	2139

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:



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 1 - HOLLAND CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
141701	CBOD: PRESERVED 4°C	12/18/19	9:04	Bo Greene
141702	ORTHOPHOSPHATE: PRESERVED 4°C	12/18/19	9:04	Bo Group
141703	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	12/18/19	9:06	Bo Green
141704	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	12/18/19	91,05	Bo Green

SAMPLE CHAIN OF CUSTODY:		COURIER YES NO
TRANSFERRED BY: X Paul Chastain	DATE/TIME: 12/13/19	
RECEIVED BY: X	DATE/TIME: 18 Dec 19	X
TRANSFERRED BY: X	DATE/TIME:	
RECEIVED BY: X O	DATE/TIME: 18 DEC!	9 ×
(LABORATORY) PLEASE DO NOT WRI	TE BELOW THIS LINE	Par
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C SAMPLES STORED IN REFRIGERATOR ID#: 267 THER SHIPPED BY: AECT TRACKING #: VA	RMOMETER ID#: 372	
pH Calibration:pH 4pH 7pH 10		



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 2 - HOLLAND "MILL" CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
141705	CBOD: PRESERVED 4°C	12/18/19	9:54	Bo Greens
141706	ORTHOPHOSPHATE: PRESERVED 4°C	12/18/19	9:55	Bo Greene
141707	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	12/18/19	9:55	Bo Greene
141708	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	12/18/19	9:56	Bo Greene

SAMPLE CHAIN OF CUSTODY:		YES	NO
TRANSFERRED BY: X Paul Chasland	DATE/TIME: N/18/19		
RECEIVED BY: X 65	DATE/TIME: 12/8//9 12:00		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X CG	DATE/TIME: 18 Dec 19		X
(LABORATORY) PLEASE DO NOT WRITE BEL	ow this line 3500pm		
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: SAMPLES STORED IN REFRIGERATOR ID#: THERMOMET SHIPPED BY: TRACKING #: pH Calibration: pH 4 pH 7 pH 10	ER ID#: 522		



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 3 - MILL CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
141709	CBOD: PRESERVED 4°C	12/18/19	9;33	Bo Greene
141710	ORTHOPHOSPHATE: PRESERVED 4°C	12/18/19	9:34	Bo Greene
1417(1	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	12/18/19	9:34	Bo Greens
14/7/2	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	12/18/19	9:33	Bo Greene

SAMPLE CHAIN OF CUSTODY:	7	COUR	
	DATE/TIME: M/8/19		
RECEIVED BY: X	DATE/TIME: 18 Dec19		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X C I I I I I I I I I I I I I I I I I I	THIS LINE 3,05 PM		×
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 44°C SAMPLES STORED IN REFRIGERATOR ID#: 260 THERMOMETER ID# SHIPPED BY: AECT TRACKING #: 100 / 400	:372		
pH Calibration :pH 4pH 7pH 10			



STUDY: NPDES

CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 4 - MILL CREEK

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	COLLE		TIME COLLECTED	PERSON COLLECTING
141713	CBOD: PRESERVED 4°C	12/18	19	9:14	Bo Greene
141714	ORTHOPHOSPHATE: PRESERVED 4°C	12/18	19	9:15	Bo Greene
141715	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	12/18	119	9:17	Bo Greene
41716	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	12/18	119	9:16	Bo Greene

SAMPLE CHAIN OF CUSTODY:	COURIER YES NO
TRANSFERRED BY: X Paul Cheslain DATE/TIME: 1/18/19	
RECEIVED BY: X PL DATE/TIME: 18 Decl	9 ×
TRANSFERRED BY: X DATE/TIME:	3/1
RECEIVED BY: X C DATE/TIME: 18 Dec	(19 X
(LABORATORY) PLEASE DO NOT WRITE BELOW THIS LINE 3:107)//\
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C SAMPLES STORED IN REFRIGERATOR ID#: 26° THERMOMETER ID#: 372 SHIPPED BY: AECT TRACKING #: AECT	
pH Calibration :pH 4pH 7pH 10	

Alabama Office 334/745-0055 or 800/662-1584 Fax: 334/745-3095 TBrantly @ AuburnEnvironmental.com 6485 LEE ROAD 54 AUBURN, AL 36830

Colorado Office 1-800-408-0083 MWallace@AuburnEnvironmental.com PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

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

SAMPLE DATE/TIME: 25 SEP 19/1024 SAMPLE # 140769/140770/140771/140772 SAMPLE TYPE: CREEK SAMPLE

LOCATION: 1 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.7 mg/l	SM5210B	AB	09-26-19	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	10-03-19	0701
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	10-03-19	1516
NITRATE+NITRITE	<0.500 mg/l	300.0	MLM	10-02-19	1517
TOTAL PHOSPHORUS	0.117 mg/l	SM4500-P-E	MS	10-01-19	1705

SAMPLE DATE/TIME: 25 SEP 19/1005 SAMPLE # 140773/140774/140775/140776 SAMPLE TYPE: CREEK SAMPLE

LOCATION: 2 - "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.3 mg/l	SM5210B	AB	09-26-19	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	10-03-19	0730
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	10-03-19	1518
NITRATE+NITRITE	0.500 mg/l	300.0	MLM	10-02-19	1607
TOTAL PHOSPHORUS	0.0805 mg/l	SM4500-P-E	MS	10-01-19	1705

SAMPLE DATE/TIME: 01 OCT 19/0945

SAMPLE TYPE: CREEK SAMPLE

SAMPLE # 140819/140820/140821/140822 LOCATION: 3 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.2 mg/l	SM5210B	AB	10-02-19	1825
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TM	10-02-19	2117
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	11-08-19	1546
NITRATE+NITRITE	<0.500 mg/l	300.0	TM	10-08-19	0258
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	EAM	10-08-19	1829

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:



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 2 - HOLLAND "MILL" CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
140769	CBOD: PRESERVED 4°C	9/25/19	10:24 EST	BO GREENE
40770	ORTHOPHOSPHATE: PRESERVED 4°C	9/25/19	10:25	BO GREENE
46071	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	9/25/19	10101	BO GREENS
40772	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	9/25/19	10:25	BO GREENE

SAMPLE CHAIN OF CUSTODY:	COURIER YES NO
TRANSFERRED BY: X PAUL CHASTAIN DATE/TIME: 9/25/19	
RECEIVED BY: X Cho 18ec DATE/TIME: 2550PF 19	X
TRANSFERRED BY: X DATE/TIME:	
RECEIVED BY: X Chy Sedu DATE/TIME: 25 59+19	. X
PLEASE DO NOT WRITE BELOW THIS LINE 3:00 PM	
SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER ID#: 372 SHIPPED BY: AECT TRACKING #:	
pH Calibration :pH 4pH 7pH 10	



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 4 - MILL CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
140773	CBOD: PRESERVED 4°C	9/25/19	10:05 65	BO GREENE
1400294	ORTHOPHOSPHATE: PRESERVED 4°C	9/25/19	10:06	BO GREENE
140775	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	9/25/19	10:06	BO GREENE
40776	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	9/25/19	10:05	BO GREENE

SAMPLE CHAIN OF CUSTODY:	COURIER YES NO
TRANSFERRED BY: X PAN CHASTALN DATE/TIME: 9/25/19	
RECEIVED BY: X Ch Bey DATE/TIME: 25SCPH/9	X
TRANSFERRED BY: X DATE/TIME:	
RECEIVED BY: X Classification (LABORATORY) DATE/TIME: 25509+19	
PLEASE DO NOT WRITE BELOW THIS LINE 25 SPA	1
SAMPLES STORED IN REFRIGERATOR ID#: 260 THERMOMETER ID#: 3)2 SHIPPED BY: ACCT TRACKING #: 1	
pH Calibration :pH 4pH 7pH 10	



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 1 - HOLLAND CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
140819	CBOD: PRESERVED 4°C	10/11/19	9:45 55	BO GREENS
140 820	ORTHOPHOSPHATE: PRESERVED 4°C	10/1/19	9:46	BO GREENE
140821	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	10/1/19	9:46	BO GREENE
40822	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	10/1/19	9:44	BO GREENE

SAMPLE CHAIN OF CUSTODY:			COURIER YES NO
TRANSFERRED BY: X Paul Chastain	DATE/TIME:	10/1/19/050	[X
RECEIVED BY: X	DATE/TIME:	111	
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X (LABORATORY)	DATE/TIME: <u></u>		X
PLEASE DO NOT WRITE	BELOW THIS LINE	了场	
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB:			
SAMPLES STORED IN REFRIGERATOR ID#: 261 THERMO	METER ID#: 45)		
SHIPPED BY: TRACKING #:			
pH Calibration :pH 4pH 7pH 10			



Alabama Office 334/745-0055 or 800/662-1584 Fax: 334/745-3095 TBrantly @ AuburnEnvironmental.com 6485 LEE ROAD 54 AUBURN, AL 36830

Colorado Office 1-800-408-0083 MWallace@AuburnEnvironmental.com PO BOX 271716 FT. COLLINS, CO 80527

REPORT OF ANALYSIS

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

SAMPLE DATE/TIME: 26 JUN 19/0901 SAMPLE # 139926/139927/139928/139929 SAMPLE TYPE: CREEK SAMPLE LOCATION: 1 – HOLLAND CREEK

		DOUL	BOOM TO THOUSEN TO CHEEK				
PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME		
CBOD	<5.00 mg/l	SM5210B	AB	06-27-19	1745		
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	06-27-19	1654		
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	07-08-19	1428		
NITRATE+NITRITE	10.8 mg/l	300.0	JDG	07-01-19	1905		
TOTAL PHOSPHORUS	0.0566 mg/l	SM4500-P-E	MS	07-02-19	1534		

SAMPLE DATE/TIME: 26 JUN 19/1016

SAMPLE TYPE: CREEK SAMPLE

SAMPLE # 139930/139931/139932/139933

LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<5.00 mg/l	SM5210B	AB	06-27-19	1745
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	06-27-19	1654
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	07-08-19	1430
NITRATE+NITRITE	11.5 mg/l	300.0	JDG	07-02-19	1213
TOTAL PHOSPHORUS	0.0566 mg/l	SM4500-P-E	MS	07-02-19	1534
ALADIE DAME MINE OF THE	T			Access to the second se	

SAMPLE DATE/TIME: 26 JUN 19/0945 SAMPLE # 139934/139935/139936/139937 SAMPLE TYPE: CREEK SAMPLE LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<5.00 mg/l	SM5210B	AB	06-27-19	1745
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	06-27-19	1654
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	07-08-19	1430
NITRATE+NITRITE	15.8 mg/l	300.0	JDG	07-02-19	1236
TOTAL PHOSPHORUS	0.0566 mg/l	SM4500-P-E	MS	07-02-19	1534

SAMPLE DATE/TIME: 26 JUN 19/0924 SAMPLE # 139938/139939/139940/139941 SAMPLE TYPE: CREEK SAMPLE LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<5.00 mg/l	SM5210B	AB	06-27-19	1745
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	JDG	06-27-19	1654
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	07-08-19	1430
NITRATE+NITRITE	12.2 mg/l	300.0	JDG	07-02-19	1259
TOTAL PHOSPHORUS	0.0639 mg/l	SM4500-P-E	MS	07-02-19	1534

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: K



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 1 - HOLLAND CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
139926	CBOD: PRESERVED 4°C	6126119	9:01 am	Вб
139927	ORTHOPHOSPHATE: PRESERVED 4°C	6126119	9:00 mm	Bo
139928	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	6126119	a 07 mm	Ro
139929	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	6126119	9.02 am	Bo

SAMPLE CHAIN OF CUSTODY:	CC YE	OURIER S NO
TRANSFERRED BY: X Bo Greene	DATE/TIME: 6-26-19 10:33m	
RECEIVED BY: X Chr / Com	DATE/TIME: 2650119	X
TRANSFERRED BY: X	DATE/TIME: 1:10 PM	
RECEIVED BY: X L/3 KCUL LABORATORY) PLEASE DO NOT WRITI	DATE/TIME: 26 JUN 19 Z & 35 PAN	K
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 44°C SAMPLES STORED IN REFRIGERATOR ID#: 267 THERM SHIPPED BY: A E C TRACKING #: V/A	IOMETER ID#: 372	
pH Calibration :pH 4pH 7pH 10		



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 2 - HOLLAND "MILL" CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON
139930	CBOD: PRESERVED 4°C	96126119	10: 16 am	Bo Grave
139931	ORTHOPHOSPHATE: PRESERVED 4°C	90126119	10:17 am	Bo Groce
139932	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄		10:19 am	Bo Greene
139933	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	6126119	10:18 am	Bo Greene

SAMPLE CHAIN OF CUSTODY:		COURIER YES NO
TRANSFERRED BY: X Bt Goods	DATE/TIME: 6-26-19 10:334	
RECEIVED BY: X This / Com	DATE/TIME: 26 JU19	\propto
TRANSFERRED BY: X	DATE/TIME:	
RECEIVED BY: X Chs /Seeleh	DATE/TIME: 26JUA19	X
(LABORATORY) PLEASE DO NOT WRITE BEL	LOW THIS LINE 2 5 45 PM	
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 260 THERMOMET	er id#: 372	
SHIPPED BY: AECT TRACKING #: V/A		
pH Calibration :pH 4pH 7pH 10		



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

SAMPLE LOCATION - 3 - MILL CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
139934	CBOD: PRESERVED 4°C	6136119	9:3 c am	Bo
139935	ORTHOPHOSPHATE: PRESERVED 4°C	612619	9:37 am	Bo
139936	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	612 6419	9135 an	Bo
39937	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	6126119	9238 am	Ba

SAMPLE CHAIN OF CUSTODY:	CO YE	URIER S NO
TRANSFERRED BY: X Bo Greue	DATE/TIME: 6-26-19 10:33w	
RECEIVED BY: X Chr Rell	DATE/TIME: 26 Jun 19	K
TRANSFERRED BY: X	DATE/TIME:	
RECEIVED BY: X Chy / Seel (LABORATORY)	DATE/TIME: 260U19	X
PLEASE DO NOT WRITE B	ELOW THIS LINE 2.25 PM	
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C SAMPLES STORED IN REFRIGERATOR ID#: 26 THERMOM SHIPPED BY: A E C T TRACKING #: 4	ETER ID#3 > 2	
pH Calibration :pH 4pH 7pH 10		



STUDY: NPDES

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055 CLIENT: CITY OF PHENIX CITY LOCATION: PHENIX CITY, AL

PROJECT: 4482-16-055

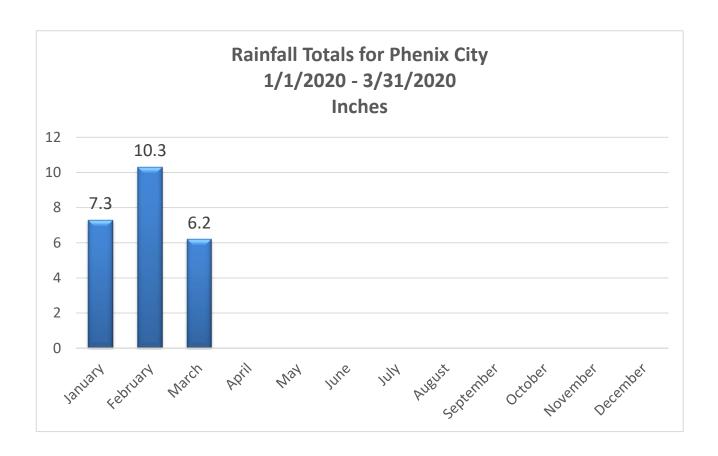
SAMPLE LOCATION - 4 - MILL CREEK

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
139938	CBOD: PRESERVED 4°C	6126119	9:17am	Bo
139939	ORTHOPHOSPHATE: PRESERVED 4°C	6126149	9:121 am	Bo
139940	NITRATE+NITRITE, TKN: PRESERVED 4°C, H ₂ SO ₄	6126119	9:16 am	Bo
139941	TOTAL PHOSPHORUS: PRESERVED H ₂ SO ₄	6126119	9:15 am	Bo

SAMPLE CHAIN OF CUSTODY:	YES NO
TRANSFERRED BY: X Bo Greece	DATE/TIME: 6-26-19 10:33am
RECEIVED BY: X Cha Reiles	DATE/TIME: 26 TUNIO
TRANSFERRED BY: X	DATE/TIME:
RECEIVED BY: X Chy Beelin	DATE/TIME: 26 Jun 19 X
(LABORATORY) PLEASE DO NOT WRI	TE BELOW THIS LINE 2505PM
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C SAMPLES STORED IN REFRIGERATOR ID#: 260 THEF SHIPPED BY: AECT TRACKING #: V/A	RMOMETER ID#: 322
pH Calibration:pH 4pH 7pH 10	



Rainfall Totals for Phenix City 1/1/2020 - 3/31/2020			
January	7.3	in.	
February	10.3	in.	
March	6.2	in.	
April		in.	
May		in.	
June		in.	
July		in.	
August		in.	
September		in.	
October		in.	
November		in.	
December		in.	
Total	23.8	in.	



Rainfall Totals for Phenix City 1/1/2019 - 12/31/2019			
January	6.1	in.	
February	1.1	in.	
March	2.7	in.	
April	5	in.	
May	3.8	in.	
June	8	in.	
July	2.3	in.	
August	2.8	in.	
September	1.9	in.	
October	4.9	in.	
November	3.7	in.	
December	8.4	in.	
Yearly Total	50.7	in.	

