PHENIX CITY Alabama

DEPARTMENT OF ENGINEERING / PUBLIC WORKS

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VIA ELECTRONIC SUBMITTAL

May 22, 2023

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

Re: 2022-2023 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, 2022 – March 31, 2023

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1.0 Introduction

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

1.1 Phenix City MS4 Area

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

According to the United States Census Bureau, the 2010 Census results for Phenix City, Alabama is 38,816 with a population density of 1,398.77 people per square mile. The 2021-2022 Annual Report contained information from the 2020 Census that had not been made official yet, meaning that the population and population density numbers were not up to date. The 2020 Census data has still not been made available and an accurate MS4 area has not been released yet either. According to the EPA, an expanded MS4 area is possible once the Census Bureau publishes mapping data based on the 2020 Census.

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

	Hydrologic Unit Code (HUC)*	Name
REGION	03	South Atlantic-Gulf
SUBREGION	0313	Apalachicola
BASIN	031300	Apalachicola
SUBBASIN	03130002	Middle Chattahoochee-Lake Harding
SUBBASIN	03130003	Middle Chattahoochee-Walter F. George
WATERSHED	033000213	Standing Boy Creek – Chattahoochee River
WATERSHED	0313000303	Bull Creek – Chattahoochee River
WATERSHED	0313000304	Little Uchee Creek
WATERSHED	0313000305	Uchee Creek

Table 1-2: Subwatersheds in the Phenix City MS4

SUBWATERSHEDS	HUC*	TOTAL AREA (Acres)**
Soap Creek – Chattahoochee River	031300021306	28,506
Holland Creek – Mill Creek	031300030301	15,729
Moon Lake – Chattahoochee River	031300030304	6,931
Cochgalechee Creek	031300030305	8,172
Broken Arrow Creek – Chattahoochee River	031300030306	20,243
Lower Little Uchee Creek	031300030403	36,752
Cowpen Creek – Uchee Creek	031300030505	20,248

* - These HUCs were found on the USGS Website, "Science in Your Watershed"

**- This is the total area of the subwatersheds, including any area outside of Phenix City in that subwatershed.

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 Mill Creek as 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: Previously Impaired Waterbody Segments in the Urbanized Area

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

1.3.1 Mill Creek

Mill Creek was identified as being impaired on ADEM's 2006 303(d) list and was de-listed as of the 2018 list. 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 Holland Creek - Mill Creek subwatershed is approximately 15,729 acres in size and is highly urbanized with many subdivisions and ongoing construction activities.

Sources of organic enrichment from potential sources within the Holland Creek - Mill Creek subwatershed include:

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

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

As stated above, Mill Creek has been removed from the Alabama 303(d) list as of the 2018 list. No other impaired streams are located within the Phenix City MS4 as of the release of the 2020 and 2022 Alabama 303(d) lists. The City will remain steadfast in its attempt to keep all other water bodies within its boundaries off of future 303(d) lists.

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 reflects activities from April 1, 2022 through March 31, 2023 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.
    a. Minimum control measures completed and in progress;
    b. An assessment of whether or not the existing BMPs are appropriate; and

c. Proposed changes to the SWMPP, including changes to the BMPs or measurable goals.

4. Summary table of storm water controls planned for the upcoming year.
5. Progress toward reducing the discharge of pollutants to the maximum extent practicable.
6. Notice of reliance of another entity to satisfy some of the City's permit obligations, if any.
7. Results of the evaluation to determine if discharges from the City's MS4 directly or indirectly contributes to any waterbody on the 303(d) list, designated by the ADEM as impaired, or for which a TMDL has been established or approved by the EPA.
8. Monitoring data for the previous year, if required under Part V of the permit.

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 2022-2023 Annual Report. Questions concerning the 2022-2023 Annual Report should be directed to the Engineering Department.

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	Jonathan Foster, Stormwater and Erosion Control Coordinator	334-448-2768	jfoster@phenixcityal.us

3.0 Program Evaluation

3.1 Major Accomplishments

3.1.1 Continued High 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 116 employees of the City of Phenix City attended annual training this year. This year, we moved to an online format for MS4 training. This is the highest recorded number of employees trained since the inception of employee MS4 training. A copy of the sign in sheets can be found in **Appendix 2.**

These videos were viewed by Phenix City employees for MS4 Training:

Illicit Discharge Detection and Elimination (IDDE) - https://www.youtube.com/watch?v=5bUIeWbL1XI

Right of Way Maintenance - https://www.youtube.com/watch?v=r9YIm2l9Rqw

3.1.2 Progress in Identifying Priority Areas

During the 2022-2023 reporting period, the City increased efforts in identifying priority areas through the stream walking program and through the continued development and adjustment of Illicit Discharge Potential (IDP) scores and calculations for each subwatershed. An Illicit Discharge Potential (IDP) Chart with scores for each delineated subwatershed has been included along with a list of Potential Generating Sites (PGS) from the EPA ECHO database. Maps showing subwatersheds, 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. As required by the permit, 15% of all known outfalls will be inspected during each reporting period and all outfalls will be inspected in the 5 year permit cycle. Additionally, the City or subcontracted crews will conduct dry weather monitoring of major outfalls in Priority Areas at a frequency of 20% each reporting period. The City has identified 3 priority areas. See **Appendix II – Supporting Documents** for a table of IDP scores. Any subwatershed IDP score between 10 and 16 is identified as a priority area.

Flow charts to better understand how these outfalls are ranked and other IDP details helping identify priority areas have been created and can be found in **Appendix II – Supporting Documents**.

The City had previously used the phrase "drainage basin" to identify areas in the City and MS4 that are more

accurately conveyed by the word "subwatershed." From now on in reporting, the City will use the word "subwatersheds," as outlined in Table 1-2 above, to convey information regarding IDP scores in those subwatersheds and other relevant information.

3.1.3 Continued Stream-Walking Program

After much research into what is classified as an outfall, specifically using *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments*, the City has determined that several pipes, inlets, and culverts that were previously labeled as "outfalls" by past City personnel were not actually outfalls. An updated list of these items that were not actually outfalls, plus any new outfalls, can be found in **Appendix I – Outfalls**.

The City met its 2022-2023 reporting period goal of identifying outfalls. A desktop assessment was completed during the 2022-2023 reporting year, helping identify 132 post-construction BMPs that have outfalls not previously listed on the outfalls list. The City's outfall total was 345 (36 non-outfalls as of 2023) prior to the 2022-2023 reporting period, and is currently 442. A total of 54 outfalls were inspected and/or field-verified, 41 were verifiable outfalls. A dry weather screening was conducted at each of these outfalls during the 2022-2023 reporting period and 82 on this list are potential outfalls left to be field verified in the coming report years. Two illicit discharges were observed during outfall screening this year. One of these discharges is currently being dealt with by the City and the discharger. Additionally, ADEM was notified of this discharge, though no further investigation was performed by them as if the date of this report.

3.1.4 Annual Post Construction Inspections

Each year the City performs annual inspections on post construction controls (detention ponds) 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 137 Post-Construction BMPs: 131 detention ponds, 2 underground detention basins, and 4 stormwater areas. A table of these BMPs can be found in **Appendix II**.

3.1.5 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 2022-2023 reporting period, the City also recorded storm water rainfalls for 24 hour rain events. An average of of 49.36" of rain was recorded for the reporting year.

3.1.6 Agreement with the Chattahoochee River Conservancy

During the 2020-2021 reporting period, the City of Phenix City entered into an agreement with the Chattahoochee River Conservancy acknowledging terms to help clean Phenix City tributaries to the

Chattahoochee River. Trash traps have been installed, maintained and operated in Mill and Holland Creek by the City and volunteers of the Chattahoochee River Conservancy since the 2020-2021 reporting period.

3.1.7 Reduction in Pollutants

Phenix City has four testing locations along Holland and Mill Creek. Samples are collected and sent to Auburn Environmental Consulting & Testing for the testing of CBOD, Orthophosphate, TKN, Nitrate & Nitrite, and total Phosphorus pollutants. During this reporting year the largest reductions in pollutants seen at all four testing locations included the CBOD and the total Phosphorus levels. Both CBOD and the total phosphorus levels contribute to strain on life in the creek ecosystem. CBOD leaches the dissolved oxygen in the water making it difficult for aquatic life to function. Excess phosphorus nutrients being washed into the creeks also contribute to an unhealthy water quality. The efforts performed in the previous years to get Mill Creek off the 303(d) list continue to produce positive results of a recovering creek ecosystem.

3.1.8 Stormwater Monthly Meetings

As of December 2021, the Engineering Department holds a monthly stormwater meeting. The topics covered in this meeting include topics like construction stormwater inspections, outfall reconnaissance inventory inspections, structural BMP inspections, scheduling for employee training and public education, and site specific issues related to stormwater in Phenix City. The City Engineer, several Graduate Civil Engineers, the City Inspector, the Stormwater and Erosion Control Coordinator, and several other individuals directly involved with the implementation of the Stormwater Management Program attend the monthly meeting. We have seen great strides during the 2022-2023 reporting year in enforcing ordinances related to erosion and sediment control, post-construction BMP maintenance, and illicit discharges.

3.1.9 Pre-Construction and Post-Construction Inspections

During the 2021-2022 reporting year, the City implemented a new pre- and post-construction inspection to ensure lot drainage and BMP installation complies with the drainage and erosion control plans approved by the City. This will prevent some erosion and sediment control issues in the future and will keep developers, homebuilders, and contractors accountable to approved erosion control plans and land disturbance permits. During the 2022-2023 reporting year, these inspections were instrumental in enforcing the policies in the City's Erosion and Sediment Control Ordinance. See **Appendix III – Construction Documents** for an example.

3.1.10 Electronics Disposal

During the 2022-2023 reporting year, the City responsibly disposed of electronic waste through a third-party out of Atlanta. The items disposed of were mostly accumulated through trash pickup by the City. Other items were surplus electronics that City personnel no longer used. The company that retrieves and recycled these items has several certifications, including: R2v3, ISO 9001:2015, ISO 14001:2018, and ISO 45001:2018. These certifications are voluntary environmental sustainability and quality management standards for responsible electronics processors. This

responsible electronic disposal has allowed the City to prevent heavy metals, glass, plastic, and other pollutants from these electronics from getting into the City's MS4 and landfill.

3.1.11 High-accuracy GPS Tablet with ArcGIS Field Maps

During the 2022-2023 reporting year, the City acquired a CHCNAV LT700H tablet that has an antenna for high-accuracy GPS capabilities. The City has ArcGIS Enterprise and, included with this software, an app called "Field Maps" for data collection, ArcGIS integration, and other capabilities that have greatly increased the efficiency of all field inspections and reporting. This app is used for inspecting construction sites, outfalls, and post-construction BMPs. The tablet can also run Adobe software for PDF editing. This gives our field inspectors the ability to more easily and accurately document field data.

3.1.12 Scrap Tire Transporter and Receiver Registration

The City was approved as a Class Two Scrap Tire Receiver on September 6, 2022 and a Transporter on September 27, 2022. This registration will not only hold City personnel accountable for where and how tires are stored, but also how stormwater runoff from any tire storage is handled. The City's registration number as a receiver is SC20000-054524 and as a transporter is STT0000-000053 and the certificates of registration can be found in **Appendix IV – Scrap Tire Permit**.

3.1.13 New Hire: GIS Coordinator

Ms. Shondra Hogan, GISP, started working in the Engineering Department in August 2022. She comes with an extensive background in implementing, updating, and maintaining GIS systems for the federal government and other local municipalities. Under Ms. Hogan, the City has been able to incorporate all field related aspects of the City's MS4 program into ESRI. We are working to keep this system updated with detention ponds, outfalls, construction sites, and many other regulated activities of the MS4 program. See **Appendix II – Supporting Documents** for a look at the dashboard created from this data.

3.1.14 New Hire: Engineer Technician II

Mr. Sebastian Gonzalez-Perez was hired on in January 2023. Sebastian will be assisting in field inspections, enforcement, and other tasks related to compliance with the MS4 permit. Mr. Gonzalez-Perez, holding a Bachelor of Science degree in Biology, has a keen eye for detail and has several years of experience in field and laboratory testing of several different chemical compounds, making him invaluable in the surface water testing area of our SWMP.

3.1.15 Land Disturbance Permit Ordinance, Public Works Manual

An ordinance pertaining to land development within the City was approved by City Council during the 2022-2023 reporting year. With this ordinance, the challenge facing our program for many years in regards to post-construction BMPs being the sole responsibility of the City has been remedied. This weakness was written into previous years' Annual Reports, "A second challenge facing the program is the existence of grey areas in the requirement to maintain 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 of the State. The City is now required to take over maintenance of these ponds owned by the State. This creates a strain on the Public Works/Engineering departments to allocate the staff and funds to maintain these facilities. Low staffing has created an issue for maintaining these systems. We are also encountering both permitted and non-permitted facilities which are owned by limited liability corporations that have dissolved since the completion of developments. These and other situations involving dissolution of companies like this have created a need to produce definitive standard operating procedures handling these instances." This weakness has been addressed for all new developments. Several previously completed developments still have post-construction BMPs that are owned by the State and maintained by the City, but a Flood Mitigation Assistance Grant will be applied for by the City and will, hopefully, be secured to help alleviate the strain on City resources to maintain these BMPs.

A new "Public Works Manual" has been implemented and is defined as follows: The Manual "Provides the requirements for developments within the City limits and planning and utility jurisdictions of the City of Phenix City. The Manual focuses on the roles and requirements of the City's Engineering and Public Works Department and the City's Utilities Department. It clarifies the basis for consistent design standards and policies including the minimum requirements for designing and constructing traffic control devices, streets, parking lots, sidewalks, bicycle facilities, greenways, transit facilities, retaining walls, dams, drainage facilities, erosion and sediment control devices, and utilities. The requirements in the Manual should be followed to expedite the processing and approval of projects." The Public Works Manual and LDP Ordinance may be made available upon request.

An update to the City's Erosion and Sediment Control Ordinance is in the process of being reviewed by the Engineering Department and will be brought before the Public at City Council within the coming months. An update to the SWMP plan will be provided once this is approved.

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 and updated in 2022. 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 Ordinance have also established legal authority to more decisively regulate the control of pollutants and the permitting of land disturbances.

A second strength is our proactive approach to handling potential Storm Water issues and our ability to continue efficiency with our current resources. With each reporting period, we are able to identify more areas within our program that need work and adjust our approach accordingly. Our relationships with contractors have allowed us to better prevent illicit discharges during and after construction.

A third strength is the implementation of the Land Disturbance Ordinance and the Public Works Manual. These two documents will streamline and clarify City regulations as it relates to all development within the City, making it easier for enforcement of the MS4 and ESC Ordinances.

A fourth, and final, strength discussed here is the implementation of a geographic information system specifically for City stormwater management. The GIS Coordinator, Engineering Technician, and Stormwater and Erosion Control Coordinator have been working throughout the 2022-2023 report year to input and test all stormwater system data available to the Engineering Department. This will allow all current and future employees to be clear, concise, and time-effective with all inspections, enforcement, and review of stormwater data.

The main weakness of the City's SWMP 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 currently handled by two people. The department lost one of these individuals at the beginning of the 2022-2023 report year, causing a strain for the remaining individual handling the bulk of the work related to maintaining compliance with the MS4 permit. Mr. Gonzalez-Perez was hired in January to fill the vacant position and he will be trained and brought up to speed on the status of the SWMP and compliance efforts. Even with a strain on resources, the City remains proactive in handling illicit discharges and other storm water management goals and is confident about the direction of the program.

A second challenge facing the program is the maintenance of post-construction BMPs that have been turned over to the State of Alabama for lack of paying property taxes. There are 14 detention ponds within the City that are state-owned, but not maintained. All of these ponds are within subdivisions. The Engineering Department has received quotes for single maintenance of these ponds in the hopes to clear them of vegetation and debris within the near future. These tasks were not budgeted for during the 2022 fiscal year, so we were not able to maintain these ponds as we had hoped. It will be one of the Engineering Department's top priorities during the 2023 fiscal year to get this maintenance on the budget and apply for the Flood Mitigation Assistance Grant to help offset the cost of maintaining these detention ponds.

A third challenge that the program has faced over the life of the SWMP is the lack of information available for the Illicit Discharge Potential assessments. The Alabama Department of Public Health has communicated to the City that they do not have a database or map of septic fields. Not all sanitary sewer within the City limits belong to the City, therefore, we should rely on knowledge obtained from sources outside of our own data. We do not have access to these other entities' data. This makes estimating the Septic Field Density extremely difficult. In addition to the lack of septic field data, the City does not currently have a reliable process for determining the average Age of Development. The lack of data on older developments that were here long before many of our current employees makes determining the age of development extremely difficult. Another factor when considering IDP scores is the lack of clarity from the MS4 permit, EPA Guidance Manual, and other public information in regards to outfall rankings and how those rankings are used in determining scores per subwatershed. Overall, these issues make IDP scoring inaccurate and unreliable. We are working towards obtaining this data, either in the field or from their owners.

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
- The advancement of the Illicit Discharge Detection and Elimination Program
- The stream-walking program, locating and documenting outfalls in accordance with the Storm Water Management Program Plan and MS4 Permit requirements
- Ranking outfalls and identifying Priority Areas. Specifically, creating a process for better evaluating Illicit Discharge Potential within each subwatershed
- Working towards a Recycling Permit and Grant Applications for responsible recycling
- Continued and improved waste reduction through recycling
- Working towards a Flood Mitigation Assistance Grant to help alleviate pressure on the City to maintain state-owned post-construction BMPs
- Maintaining and updating the GIS for stormwater infrastructure and collecting precise data on all stormwater infrastructure within the City
- Participate in and/or lead more community cleanup events. We have been in conversations with the Chattahoochee Riverkeepers to discuss adding a cleanup site on the Phenix City and Columbus portion of the Chattahoochee River

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

ATTEST:

Melony Lee, City Clerk
City of Phenix City, Alabama
Date

Wallace B. Hunter, City Manager
City of Phenix City, Alabama
5-10-23
Date

RESOLUTION NO. 2023 - 99

WHEREAS, the Alabama Department of Environmental Management requires the City to submit an Annual Report of its Stormwater Management Program in compliance with the City's Municipal Separate Storm Sewer System Permit; and

WHEREAS, the City wishes to submit the attached Annual Report for the 2022-2023 Annual Reporting year to the Alabama Department of Environmental Management.

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Phenix City hereby authorizes its Mayor, City Manager, and City Clerk to sign the 2022-2023 Municipal Separate Storm Sewer System Permit Annual Report.

PASSED, APPROVED AND ADOPTED this 16th day of May, 2023.

MAYOR

MEMBERS OF THE CITY COUNCIL OF
THE CITY OF PHENIX CITY, ALABAMA

ATTEST:

CITY CLERK

THE CITY OF PHENIX CITY

CONTROL MEASURE 1 - PUBLIC EDUCATION AND PUBLIC INVOLVEMENT

Narrative Report

ACTIVITY NO.	STRATEGIES	IMPLEMENTATION STATUS FOR REPORTING PERIOD	PROPOSED EFFORTS FOR NEXT REPORTING PERIOD	SUPPORTING DOCUMENTATION	COMMENTS/CHANGES	PROPOSED CHANGES MET
1	**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 2022-2023 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. 12 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 did not help market or cleanup during the Help the Hooch event. The City, instead, assisted the Chattahoochee River Conservancy in trash trap clean up and allowed them to place trash traps at the confluence of several tributaries and the Chattahoochee.	The City will be moving forward with other options to assist cleanup and protection of the Chattahoochee during the 2023-2024 reporting year. The Chattahoochee Riverkeepers host an annual cleanup and the Chattahoochee River Conservancy hosts several cleanups that the City would like to participate and advertise for.	Amount of trash and debris are included in the Solid Waste quarterly report of volume. Copies of the quarterly report are available upon request.	As mentioned, the City aims to partner with the Chattahoochee Riverkeepers and continue the cleanup partnership with the Chattahoochee River Conservancy.	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. 74.75 tons of recyclables were reported for the 2022-2023 reporting period.	The City will continue managing the recycling drop-off locations. The City is currently investigating a Possible location for a 3rd Recycling Center to promote and encourage more recycling.	**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 subwatersheds 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 has included a chart with the Illicit discharge potential for each subwatershed. The City will continue to update the chart.	No proposed changes at this time.	Yes
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. 54 outfalls inspected and 41 verified for 2022-2023. 442 total outfalls located/identified since permit issuance.	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.	Yes Goal for outfalls met for this permit cycle.
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. 82 probable outfalls identified during desktop review. 54 outfalls inspected. 41 verifiable outfalls.	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.	Yes Goal for outfalls met for this permit cycle.
4	**Outfall Reconnaissance Inventory:** Conduct dry weather monitoring of 15% of major outfalls in Priority Areas.	The City has located and inspected 54 outfalls this year. Only 41 that were inspected were verifiable outfalls. Dry weather monitoring and verification was combined.	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.	Yes Goal for outfalls met for this permit cycle.
5	**Suspect Discharge Sampling:** Field crews will collect samples of suspected illicit discharges for laboratory analysis.	3 suspect illicit discharges were investigated and eliminated. Samples were collected by the dischargers and the City. See documentation in appendices. 1 was found to not be an illicit discharge.	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.	Yes Goal for outfalls met for this permit cycle.
6	**Outfall Ranking:** Designate the inspected outfalls as having obvious, suspect, possible, or unlikely discharge potential based on data from each ORI Field Sheet.	There were: 29 Unlikely outfalls 6 Potential outfalls 4 Suspect outfalls 2 Obvious outfalls	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.	Yes Goal for outfalls met for this permit cycle.

7	**Discharge Investigation:** Illicit discharge investigations will be performed to determine the source of a discharge problem.	5 obvious illicit discharges were identified. 2 of those were from a repeat offender. Laboratory analysis was performed by the discharger or the City at 2 of these. Only 2 discharges were from outfalls. The other 2 discharges were handled immediately after observation and no samples were necessary. The 2 illicit discharges from a repeat offender were outside of our MS4 jurisdiction. The MS4 was informed. Another discharge complaint was outside of our MS4 jurisdiction as well and the MS4 was notified.	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.	Yes Goal for outfalls met for this permit cycle.
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. 11 reported illicit discharges. 5 confirmed illicit discharges. 1 confirmed illegal dumping. 3 reported corrective actions. 1 ongoing investigations for a repeat offender outside of our MS4. 4 reported dishcarges within other MS4s.	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.	Yes
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.	Yes Goal for outfalls met for this permit cycle.
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 as-built surveys submitted of new development features and conveyances. New outfalls are verified after construction is complete. 28 new construction plans were submitted to the City. 41 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.	Yes Goal for outfalls met for this permit cycle.

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 7th, 2017. This reporting period, the City had: 1 potential qualifying new businesses. 11 complaints received. 5 illicit discharges identified. 3 resolved potential violations. 1 repeat offender 3 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: 11 Illicit discharge complaints were received 5 were confirmed as discharges 1 was illegal dumping 4 complaints were not in MS4 limits 4 complaints were not illicit discharges	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. 116 City employees attended municipal training sessions during The 2022-2023 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

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. 13 non-compliant construction sites identified by the City. 18 enforcement action taken 0 sites reported to ADEM. 4 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. 28 plans have been submitted. 28 plans have been reviewed. 12 plans have been approved. 0 plans have been denied. 10 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 371 inspection reports, directly concerning ESC or storm water issues, were created between all Engineering Dept. inspectors. 13 non-compliant construction sites identified by the City. 18 enforcement actions taken. 4 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. Jimmy Cook (QCI #T6191) Richard Carlson (QCI#63899) Jonathan Foster (QCI #T7190) Sebastian Gonzalez-Perez (QCI#T7777) QCI certifications were maintained through the approved initial and annual refresher courses.	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. 12 inquiries received. 12 complaints addressed. 12 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

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. 14 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.	The City will continue to implement The Erosion and Sediment Control Policy and evaluate its effectiveness each reporting period. The City is in the process of developing a post construction storm water maintenance agreement.	Copies of plans and agreements are available upon request.	No proposed changes at this time.	In Progress
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 (GI) and low-impact development (LID) techniques. The City has included links to the EPA's LID guidance and the ADEM's LID Handbook for the State of Alabama.	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. 28 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.	Copies of plans are available for review upon request.	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. 137 detention ponds were inspected. 3 new detention ponds were installed. There were 29 detention systems that were unaccounted for prior to the 2022-2023 year that had either been missed by previous staff or installed long before our MS4 permit was issued.	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

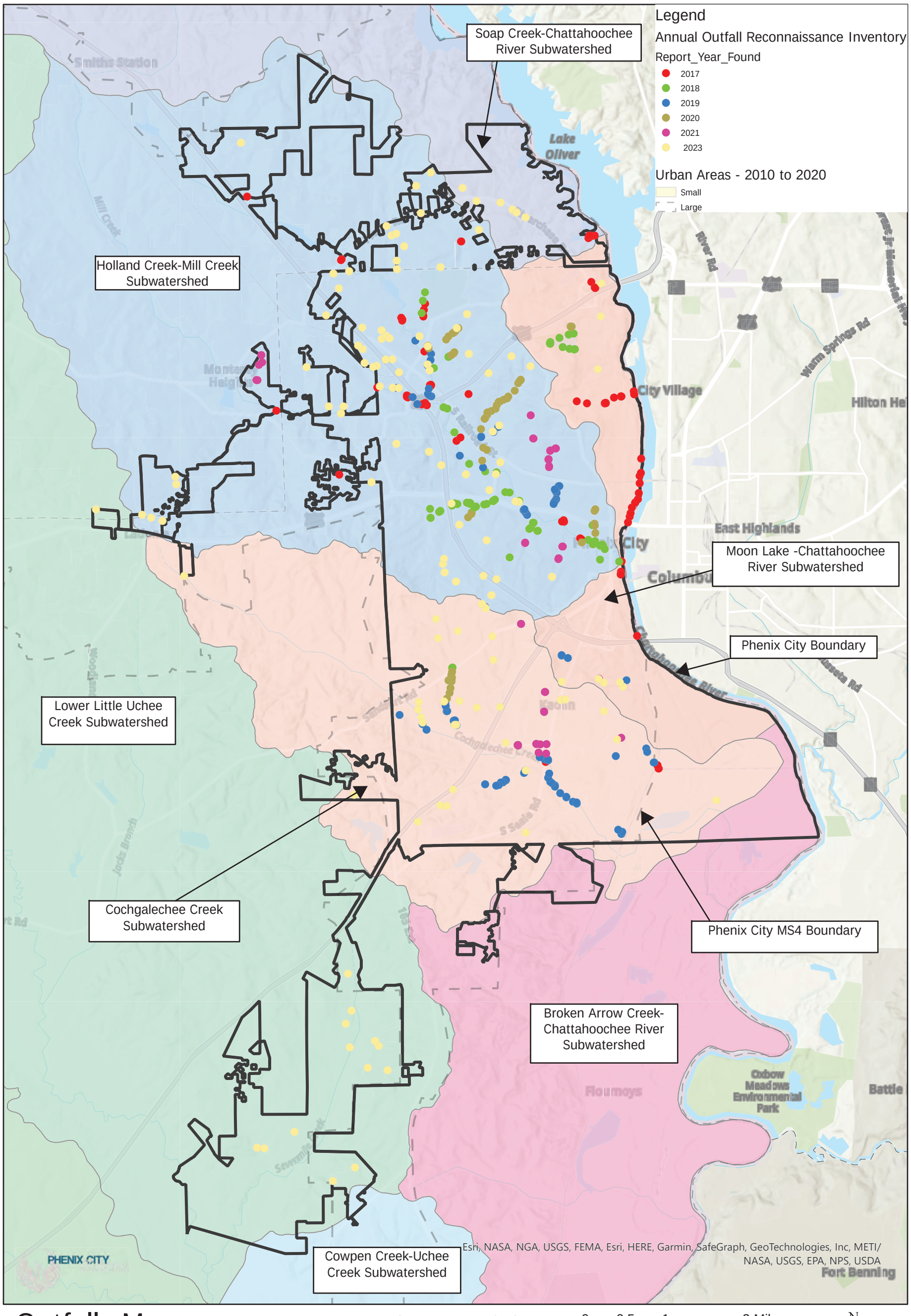
CONTROL MEASURE 5 - POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

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. 0 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. 116 City employees attended municipal training sessions during the 2022-2023 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. 3,189 tons of limbs and debris were reported for the 2022-2023 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 are provided on the website. 74.75 tons of recyclables were reported for the 2022-2023 reporting period. Approximately 1,287 tires were removed during the reporting period.	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/** The City has applied for and maintained Scrap Tire Receiver and Transporter permits during the 2022-2023 reporting year.	No proposed changes at this time.	Yes

Appendix I – Outfalls



Outfalls Map

Drawn by J.Foster on 4/25/2023

0 0.5 1 2 Miles

N

Outfall_Ident	Report_Year_Found	Latitude	Longitude	Description	Stream
17.001	2017	32.520469	-85.066078	DITCH	HOLLAND CREEK
17.002	2017	32.510986	-85.049103	DITCH	HOLLAND CREEK
17.003	2017	32.510853	-85.049214	DITCH	HOLLAND CREEK
17.004	2017	32.501694	-85.038222	36" RCP	HOLLAND CREEK
17.005	2017	32.501858	-85.038172	18" RCP	HOLLAND CREEK
17.006	2017	32.502128	-85.038389	DITCH	HOLLAND CREEK
17.007	2017	32.490183	-84.998906	24" CONCRETE PIPE	UNNAMED TRIBUTARY
17.008	2017	32.490228	-84.998919	FLUME	UNNAMED TRIBUTARY
17.009	2017	32.490203	-84.998822	FLUME	UNNAMED TRIBUTARY
17.010	2017	32.490983	-84.996614	24" RCP	CHATAHOOCHEE RIVER
17.011	2017	32.490522	-84.996544	18" CONCRETE PIPE	CHATAHOOCHEE RIVER
17.012	2017	32.490036	-85.000164	18" CMP	UNNAMED TRIBUTARY
17.013	2017	32.489203	-85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
17.014	2017	32.489189	-85.001806	FLUME	UNNAMED TRIBUTARY
17.015	2017	32.489142	-85.001819	18" CONCRETE PIPE	UNNAMED TRIBUTARY
17.016	2017	32.489181	-85.001625	18" CONCRETE PIPE	UNNAMED TRIBUTARY
17.017	2017	32.489244	-85.001658	18" CONCRETE PIPE	UNNAMED TRIBUTARY
17.018	2017	32.489158	-85.005019	18" CONCRETE PIPE	UNNAMED TRIBUTARY
17.019	2017	32.489472	-85.006853	36" CONCRETE PIPE	UNNAMED TRIBUTARY
17.020	2017	32.490567	-85.026297	(2) 30" RCP	HOLLAND CREEK
17.021	2017	32.513681	-85.027664	42" CMP	HOLLAND CREEK
17.022	2017	32.513683	-85.0276	DITCH	HOLLAND CREEK
17.023	2017	32.503319	-85.034314	DITCH	UNNAMED TRIBUTARY
17.024	2017	32.50425	-85.034106	DITCH	UNNAMED TRIBUTARY
17.025	2017	32.502442	-85.034425	FLUME	UNNAMED TRIBUTARY
17.026	2017	32.502306	-85.034417	FLUME	UNNAMED TRIBUTARY
17.027	2017	32.47835	-85.049522	24" RCP	MILL CREEK
17.028	2017	32.491567	-85.042697	DITCH	MILL CREEK
17.029	2017	32.490244	-85.037231	DITCH	MILL CREEK
17.030	2017	32.49005	-85.037203	FLUME	MILL CREEK
17.031	2017	32.49015	-85.037392	FLUME	MILL CREEK
17.032	2017	32.490358	-85.037378	FLUME	MILL CREEK
17.033	2017	32.491778	-85.033092	DITCH	HOLLAND CREEK
17.034	2017	32.491928	-85.033239	FLUME	HOLLAND CREEK

17.035	2017	32.491981	-85.033083	DITCH	HOLLAND CREEK
17.036	2017	32.491917	-85.033017	DITCH	HOLLAND CREEK
17.037	2017	32.483475	-85.028461	24" RCP	HOLLAND CREEK
17.038	2017	32.483978	-85.02775	24" RCP	HOLLAND CREEK
17.039	2017	32.514572	-85.003631	24" RCP	CHATAHOOCHEE RIVER
17.040	2017	32.514514	-85.004131	24" RCP	CHATAHOOCHEE RIVER
17.041	2017	32.514181	-85.004756	24" RCP	CHATAHOOCHEE RIVER
17.042	2017	32.514525	-85.004619	DITCH	CHATAHOOCHEE RIVER
17.043	2017	32.514597	-85.004547	BOAT RAMP	CHATAHOOCHEE RIVER
17.044	2017	32.434822	-85.012436	DITCH	COCHGALECHEE CREEK
17.045	2017	32.488878	-85.033781	FLUME	MILL CREEK
17.046	2017	32.489225	-85.034119	FLUME	MILL CREEK
17.047	2017	32.4891	-85.034406	CURB INLET	MILL CREEK
17.048	2017	32.489	-85.034725	FLUME	MILL CREEK
17.049	2017	32.489031	-85.035522	24" CONCRETE PIPE	MILL CREEK
17.050	2017	32.507547	-85.004239	FLUME	CHATAHOOCHEE RIVER
17.051	2017	32.463653	-84.998917	24" RCP	CHATAHOOCHEE RIVER
17.052	2017	32.463278	-84.998956	24" CONCRETE PIPE	CHATAHOOCHEE RIVER
17.053	2017	32.463228	-84.998956	24" CONCRETE PIPE	CHATAHOOCHEE RIVER
17.054	2017	32.453925	-84.996019	DITCH	CHATAHOOCHEE RIVER
17.055	2017	32.433819	-84.992158	30" CONCRETE PIPE	COCHGALECHEE CREEK
17.056	2017	32.433825	-84.992125	24" RCP	COCHGALECHEE CREEK
17.057	2017	32.434311	-84.992367	24" CMP	COCHGALECHEE CREEK
17.058	2017	32.434333	-84.99235	24" CMP	COCHGALECHEE CREEK
17.059	2017	32.471136	-84.997647	18" RCP	CHATAHOOCHEE RIVER
17.060	2017	32.472006	-84.997347	15" RCP	CHATAHOOCHEE RIVER
17.061	2017	32.472525	-84.997186	12" RCP	CHATAHOOCHEE RIVER
17.062	2017	32.473381	-84.996956	36" RCP	CHATAHOOCHEE RIVER
17.063	2017	32.474194	-84.996297	24" RCP	CHATAHOOCHEE RIVER
17.064	2017	32.474103	-84.996383	36" RCP	CHATAHOOCHEE RIVER
17.065	2017	32.474642	-84.995864	36" RCP	CHATAHOOCHEE RIVER
17.066	2017	32.475569	-84.995711	18" RCP	CHATAHOOCHEE RIVER
17.067	2017	32.477058	-84.995553	24" CMP	CHATAHOOCHEE RIVER
17.068	2017	32.478169	-84.995558	24" CMP	CHATAHOOCHEE RIVER
17.069	2017	32.478622	-84.995336	FLUME	CHATAHOOCHEE RIVER

17.070	2017	32.480781	-84.995283	18" CMP	CHATAHOOCHEE RIVER
17.071	2017	32.506703	-85.003631	48" RCP	UNNAMED TRIBUTARY
17.072	2017	32.506625	-85.003536	12' CULVERT	UNNAMED TRIBUTARY
17.073	2017	32.497017	-85.034225	MONITORING LOCATION 1	HOLLAND CREEK
17.074	2017	32.468581	-85.006019	18" RCP	HOLLAND "MILL" CREEK
17.075	2017	32.468711	-85.006247	18" RCP	HOLLAND "MILL" CREEK
17.076	2017	32.471231	-85.009125	18" RCP	HOLLAND "MILL" CREEK
17.077	2017	32.471453	-85.009214	24" CLAY PIPE	HOLLAND "MILL" CREEK
17.078	2017	32.471256	-85.009506	24" RCP	HOLLAND "MILL" CREEK
17.079	2017	32.48805	-85.060822	MONITORING LOCATION 3	MILL CREEK
17.080	2017	32.465211	-84.998792	DITCH	HOLLAND "MILL" CREEK
17.081	2017	32.465214	-84.998992	DITCH	HOLLAND "MILL" CREEK
18.001	2018	32.465179	-84.999224	FLUME	HOLLAND "MILL" CREEK
18.002	2018	32.465481	-85.002677	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
18.003	2018	32.46765	-85.00213	36" CONCRETE PIPE	HOLLAND "MILL" CREEK
18.004	2018	32.46774	-85.002221	4" PVC PIPE	HOLLAND "MILL" CREEK
18.005	2018	32.467769	-85.002291	36" CONCRETE PIPE	HOLLAND "MILL" CREEK
18.006	2018	32.46829	-85.00357	96" CMP	HOLLAND "MILL" CREEK
18.007	2018	32.467601	-85.002677	FLUME	HOLLAND "MILL" CREEK
18.008	2018	32.44909	-85.029244	24" RCP	UNNAMED TRIBUTARY
18.009	2018	32.46781	-85.003965	DITCH	HOLLAND "MILL" CREEK
18.010	2018	32.46847	-85.004785	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
18.011	2018	32.449133	-85.029175	DITCH	UNNAMED TRIBUTARY
18.012	2018	32.4707	-85.00404	24" CONCRETE PIPE	HOLLAND "MILL" CREEK
18.013	2018	32.470321	-85.015066	DRAIN INLET	UNNAMED TRIBUTARY
18.014	2018	32.47032	-85.01506	6" PIPE	UNNAMED TRIBUTARY
18.015	2018	32.47025	-85.0152	6" PIPE	UNNAMED TRIBUTARY
18.016	2018	32.47025	-85.015195	DRAIN INLET	UNNAMED TRIBUTARY
18.017	2018	32.47014	-85.01538	24" CONCRETE PIPE	UNNAMED TRIBUTARY
18.018	2018	32.47101	-85.014691	DRAIN INLET	UNNAMED TRIBUTARY
18.019	2018	32.47109	-85.01463	24" CONCRETE PIPE	UNNAMED TRIBUTARY
18.020	2018	32.471067	-85.014614	DRAIN INLET	UNNAMED TRIBUTARY
18.021	2018	32.471069	-85.014723	24" CONCRETE PIPE	UNNAMED TRIBUTARY
18.022	2018	32.46984	-85.01392	24" CONCRETE PIPE	UNNAMED TRIBUTARY
18.023	2018	32.46985	-85.01385	24" CONCRETE PIPE	UNNAMED TRIBUTARY

18.024	2018	32.488361	-85.030111	DITCH/TRIBUTARY CREEK	HOLLAND "MILL" CREEK
18.025	2018	32.479991	-85.02619	15" RCP	HOLLAND "MILL" CREEK
18.026	2018	32.47885	-85.023311	36" CMP	HOLLAND "MILL" CREEK
18.027	2018	32.47872	-85.021264	FLUME	HOLLAND "MILL" CREEK
18.028	2018	32.474402	-85.017163	24" RCP	HOLLAND "MILL" CREEK
18.029	2018	32.467072	-85.001814	MONITORING LOCATION 2	HOLLAND "MILL" CREEK
18.030	2018	32.488556	-85.030772	MONITORING LOCATION 4	HOLLAND/MILL CREEK
18.031	2018	32.484768	-85.028844	24" RCP	HOLLAND "MILL" CREEK
18.032	2018	32.473952	-85.026133	FLUME	UNNAMED TRIBUTARY
18.033	2018	32.473971	-85.0261	FLUME	UNNAMED TRIBUTARY
18.034	2018	32.473942	-85.026083	18" RCP	UNNAMED TRIBUTARY
18.035	2018	32.474101	-85.0261	30" RCP	UNNAMED TRIBUTARY
18.036	2018	32.474112	-85.026587	18" CMP	UNNAMED TRIBUTARY
18.037	2018	32.473904	-85.028302	14" HDP	UNNAMED TRIBUTARY
18.038	2018	32.474009	-85.028801	12" RCP	UNNAMED TRIBUTARY
18.039	2018	32.472869	-85.031381	16" CMP	UNNAMED TRIBUTARY
18.040	2018	32.472714	-85.031582	36"CMP	UNNAMED TRIBUTARY
18.041	2018	32.47401	-85.025948	FLUME	UNNAMED TRIBUTARY
18.042	2018	32.472453	-85.025778	FLUME	UNNAMED TRIBUTARY
18.043	2018	32.472633	-85.02574	FLUME	UNNAMED TRIBUTARY
18.044	2018	32.473367	-85.025262	18" CONCRETE PIPE	UNNAMED TRIBUTARY
18.045	2018	32.47352	-85.024956	FLUME	UNNAMED TRIBUTARY
18.046	2018	32.47383	-85.023483	48" CMP	UNNAMED TRIBUTARY
18.047	2018	32.473921	-85.023044	4" CLAY	UNNAMED TRIBUTARY
18.048	2018	32.474367	-85.021936	18" RCP	UNNAMED TRIBUTARY
18.049	2018	32.474349	-85.021855	18" RCP	UNNAMED TRIBUTARY
18.050	2018	32.474578	-85.021562	18" RCP	UNNAMED TRIBUTARY
18.051	2018	32.474551	-85.021583	18" RCP	UNNAMED TRIBUTARY
18.052	2018	32.475708	-85.019699	18" RCP	UNNAMED TRIBUTARY
18.053	2018	32.475652	-85.018919	24" CMP	UNNAMED TRIBUTARY
18.054	2018	32.47368	-85.029251	24" RCP	UNNAMED TRIBUTARY
18.055	2018	32.47183	-85.033148	18" RCP	UNNAMED TRIBUTARY
18.056	2018	32.471806	-85.033098	18" RCP	UNNAMED TRIBUTARY
18.057	2018	32.473182	-85.033211	18" RCP	UNNAMED TRIBUTARY
18.058	2018	32.505976	-85.03412	18" RCP	UNNAMED TRIBUTARY

18.059	2018	32.504709	-85.034496	18" RCP	UNNAMED TRIBUTARY
18.060	2018	32.502828	-85.034726	18" RCP	UNNAMED TRIBUTARY
18.061	2018	32.49624	-85.02988	FLUME	UNNAMED TRIBUTARY
18.062	2018	32.496188	-85.029909	24" RCP	UNNAMED TRIBUTARY
18.063	2018	32.496221	-85.029904	24" RCP	UNNAMED TRIBUTARY
18.064	2018	32.496283	-85.029734	FLUME	UNNAMED TRIBUTARY
18.065	2018	32.494506	-85.032526	24" RCP	UNNAMED TRIBUTARY
18.066	2018	32.46582	-85.018912	FLUME	UNNAMED TRIBUTARY
18.067	2018	32.499732	-85.007409	12" RCP	MOON LAKE
18.068	2018	32.49958	-85.008303	12" RCP	MOON LAKE
18.069	2018	32.499079	-85.009969	24" RCP	MOON LAKE
18.060	2018	32.498448	-85.011602	24" RCP	MOON LAKE
18.061	2018	32.498241	-85.011692	36" RCP	MOON LAKE
18.062	2018	32.498205	-85.011667	36" RCP	MOON LAKE
18.063	2018	32.49818	-85.011624	12" RCP	MOON LAKE
18.064	2018	32.497676	-85.009379	24" RCP	MOON LAKE
18.065	2018	32.497415	-85.008152	24" RCP	MOON LAKE
18.066	2018	32.497319	-85.007304	15" RCP	MOON LAKE
18.067	2018	32.497367	-85.007185	24" RCP	MOON LAKE/OUTFALL
18.068	2018	32.472849	-85.031361	16" CONCRETE PIPE	UNNAMED TRIBUTARY
19.001	2019	32.49865891	-85.03586509	Ditch	HOLLAND CREEK
19.002	2019	32.49664992	-85.0330316	48 RCP	Holland Creek
19.003	2019	32.49571366	-85.03311511	36 RCP	Holland Creek
19.004	2019	32.49490855	-85.03364684	18 HDP	Holland Creek
19.005	2019	32.49022623	-85.03299017	FLUME	Holland Creek
19.006	2019	32.49035654	-85.03333702	FLUME	Holland Creek
19.007	2019	32.49059125	-85.03359315	FLUME	Holland Creek
19.008	2019	32.4913782	-85.03344736	36 CMP	Holland Creek
19.009	2019	32.4914989	-85.03921298	DITCH	Mill Creek
19.010	2019	32.49009708	-85.03633599	DITCH	Mill Creek
19.011	2019	32.48904797	-85.03549673	72 RCP	Mill Creek
19.012	2019	32.47943262	-85.02369329	42 RCP	Mill Creek
19.013	2019	32.48122995	-85.02786756	48 RCP	Mill Creek
19.014	2019	32.47226252	-85.01578049	24 RCP	Mill Creek
19.015	2019	32.47256831	-85.01601349	DITCH	Mill Creek

19.016	2019	32.47280701	-85.01621286	24 RCP	Mill Creek
19.017	2019	32.47298665	-85.01640466	24 CMP	Mill Creek
19.018	2019	32.47303972	-85.01633918	24 RCP	Mill Creek
19.019	2019	32.47310562	-85.01625105	24 RCP	Mill Creek
19.020	2019	32.47310562	-85.01625105	24 RCP	Mill Creek
19.021	2019	32.43474304	-84.99303333	24 RCP	UNNAMED TRIBUTARY
19.022	2019	32.43474531	-84.99293577	DITCH	UNNAMED TRIBUTARY
19.023	2019	32.43686441	-84.99436772	24 RCP	UNNAMED TRIBUTARY
19.024	2019	32.43633699	-84.99419821	24 RCP	UNNAMED TRIBUTARY
19.025	2019	32.43571091	-84.99984354	24 RCP	UNNAMED TRIBUTARY
19.026	2019	32.44045367	-85.02876865	18 RCP	UNNAMED TRIBUTARY
19.027	2019	32.44107876	-85.02897045	18 RCP	UNNAMED TRIBUTARY
19.028	2019	32.44113014	-85.02875656	18 RCP	UNNAMED TRIBUTARY
19.029	2019	32.44250337	-85.03022242	18 RCP	UNNAMED TRIBUTARY
19.030	2019	32.44253696	-85.03012761	18 RCP	UNNAMED TRIBUTARY
19.031	2019	32.4403994	-85.02843632	18 RCP	UNNAMED TRIBUTARY
19.032	2019	32.44363542	-85.03045084	24 RCP	UNNAMED TRIBUTARY
19.033	2019	32.44328606	-85.03039366	DITCH	UNNAMED TRIBUTARY
19.034	2019	32.43522404	-85.01264074	DITCH	Cochgalechee Creek
19.035	2019	32.43554795	-85.01351972	18 RCP	Cochgalechee Creek
19.036	2019	32.42878901	-85.00752631	18 RCP	Cochgalechee Creek
19.037	2019	32.42850531	-85.00686532	30 RCP	Cochgalechee Creek
19.038	2019	32.42944652	-85.00872468	18 RCP	Cochgalechee Creek
19.039	2019	32.42953679	-85.00873659	18 RCP	Cochgalechee Creek
19.040	2019	32.43009489	-85.00983267	18 CMP	Cochgalechee Creek
19.041	2019	32.43127858	-85.01078734	12 RCP	Cochgalechee Creek
19.042	2019	32.43107826	-85.01077889	18 RCP	Cochgalechee Creek
19.043	2019	32.4316195	-85.01131754	18 RCP	Cochgalechee Creek
19.044	2019	32.4318114	-85.0116143	12 CMP	Cochgalechee Creek
19.045	2019	32.43243256	-85.01199774	DITCH	Cochgalechee Creek
19.046	2019	32.43306815	-85.01180224	18 RCP	Cochgalechee Creek
19.047	2019	32.43506242	-85.01199441	FLUME	Cochgalechee Creek
19.048	2019	32.43517665	-85.01201245	FLUME	Cochgalechee Creek
19.049	2019	32.43345574	-85.01613025	14 RCP	UNNAMED TRIBUTARY
19.050	2019	32.43315805	-85.0163284	18 RCP	UNNAMED TRIBUTARY

19.051	2019	32.43206287	-85.01955752	24 RCP	UNNAMED TRIBUTARY
19.052	2019	32.4320255	-85.01964334	FLUME	UNNAMED TRIBUTARY
19.053	2019	32.48414234	-85.02403689	FLUME	UNNAMED TRIBUTARY
19.054	2019	32.48404498	-85.024022	18 RCP	UNNAMED TRIBUTARY
19.055	2019	32.43353729	-85.01605898	FLUME	UNNAMED TRIBUTARY
19.056	2019	32.43211227	-85.01962905	FLUME	UNNAMED TRIBUTARY
19.057	2019	32.431728	-85.02010826	DITCH	UNNAMED TRIBUTARY
19.058	2019	32.43170462	-85.02050713	18 RCP	UNNAMED TRIBUTARY
19.059	2019	32.43130444	-85.02088438	30 CMP	UNNAMED TRIBUTARY
19.060	2019	32.43122369	-85.02133324	24 RCP	UNNAMED TRIBUTARY
19.061	2019	32.43143354	-85.023319	14 RCP	UNNAMED TRIBUTARY
19.062	2019	32.43143354	-85.02331899	24 RCP	UNNAMED TRIBUTARY
19.063	2019	32.52411532	-85.03303652	24 RCP	UNNAMED TRIBUTARY
19.064	2019	32.48480851	-85.02183276	24 RCP	UNNAMED TRIBUTARY
19.065	2019	32.485566	-85.02097247	24 RCP	UNNAMED TRIBUTARY
19.066	2019	32.44194501	-85.03868862	FLUME	UNNAMED TRIBUTARY
19.067	2019	32.4405552	-85.0345544	DITCH	Cochgalechee Creek
19.068	2019	32.43970184	-85.03384835	24 RCP	Cochgalechee Creek
19.069	2019	32.47660328	-85.01013581	14 RCP	UNNAMED TRIBUTARY
19.070	2019	32.47660127	-85.00998061	18 RCP	UNNAMED TRIBUTARY
19.071	2019	32.47663312	-85.00998834	FLUME	UNNAMED TRIBUTARY
19.072	2019	32.47558833	-85.0104764	INLET	UNNAMED TRIBUTARY
19.073	2019	32.47567819	-85.01047091	INLET	UNNAMED TRIBUTARY
19.074	2019	32.47595312	-85.01071082	INLET	UNNAMED TRIBUTARY
19.075	2019	32.47612049	-85.01079991	INLET	UNNAMED TRIBUTARY
19.076	2019	32.47467384	-85.01053067	INLET	UNNAMED TRIBUTARY
19.077	2019	32.47458474	-85.01058306	INLET	UNNAMED TRIBUTARY
19.078	2019	32.4743495	-85.01076826	INLET	UNNAMED TRIBUTARY
19.079	2019	32.47415965	-85.01094116	INLET	UNNAMED TRIBUTARY
19.080	2019	32.47391695	-85.01101489	INLET	UNNAMED TRIBUTARY
19.081	2019	32.44720176	-84.99792356	DITCH	UNNAMED TRIBUTARY
19.082	2019	32.45094475	-85.00957482	18 RCP	UNNAMED TRIBUTARY
19.083	2019	32.45101247	-85.00957167	24 RCP	UNNAMED TRIBUTARY
19.084	2019	32.45057447	-85.00845426	24 RCP	UNNAMED TRIBUTARY
19.085	2019	32.42390737	-84.9988396	18 RCP	UNNAMED TRIBUTARY

19.086	2019	32.42422819	-84.99868284	14 RCP	UNNAMED TRIBUTARY
19.087	2019	32.42454634	-84.99941428	24 CMP	UNNAMED TRIBUTARY
19.088	2019	32.42868139	-85.0068852	36 CMP	Cochgalechee Creek
20.001	2020	32.49882846	-85.03032223	18 RCP	UNNAMED TRIBUTARY
20.002	2020	32.50007636	-85.02868193	INLET	UNNAMED TRIBUTARY
20.003	2020	32.50000166	-85.02875646	INLET	UNNAMED TRIBUTARY
20.004	2020	32.49985698	-85.02896942	INLET	UNNAMED TRIBUTARY
20.005	2020	32.49976678	-85.02917599	FLUME	UNNAMED TRIBUTARY
20.006	2020	32.5005637	-85.02810923	20 RCP	UNNAMED TRIBUTARY
20.007	2020	32.50054706	-85.02815588	SPILLWAY	UNNAMED TRIBUTARY
20.008	2020	32.4804813	-85.02384393	12 RCP	Holland Creek
20.009	2020	32.48243971	-85.02365238	24 RCP	UNNAMED TRIBUTARY
20.010	2020	32.48210643	-85.02299707	24 RCP	UNNAMED TRIBUTARY
20.011	2020	32.49670636	-85.02899251	INLET	UNNAMED TRIBUTARY
20.012	2020	32.49690399	-85.02884787	INLET	UNNAMED TRIBUTARY
20.013	2020	32.49645289	-85.02941067	14 RCP	UNNAMED TRIBUTARY
20.014	2020	32.49930854	-85.02989502	24 RCP	UNNAMED TRIBUTARY
20.015	2020	32.4975168	-85.03347698	24 RCP	Holland Creek
20.016	2020	32.49788341	-85.03363616	18 RCP	Holland Creek
20.017	2020	32.44601699	-85.02954298	10IN STEEL	Cochgalechee Creek
20.018	2020	32.44528656	-85.02970151	18 RCP	Cochgalechee Creek
20.019	2020	32.44442396	-85.03016957	24 RCP	Cochgalechee Creek
20.020	2020	32.44703252	-85.02934251	18 RCP	Cochgalechee Creek
20.021	2020	32.44718142	-85.02989779	15 RCP	Cochgalechee Creek
20.022	2020	32.44751009	-85.02949683	FLUME	Cochgalechee Creek
20.023	2020	32.44756293	-85.02927527	FLUME	Cochgalechee Creek
20.024	2020	32.44804479	-85.02937773	6IN PVC	Cochgalechee Creek
20.025	2020	32.44849653	-85.029255	18 RCP	Cochgalechee Creek
20.026	2020	32.47239785	-85.02579807	18 RCP	UNNAMED TRIBUTARY
20.027	2020	32.4718911	-85.02638215	24 RCP	UNNAMED TRIBUTARY
20.028	2020	32.46808488	-85.0059512	20 HDPE	Mill Creek
20.029	2020	32.46951549	-85.00351542	18 RCP	UNNAMED TRIBUTARY
20.030	2020	32.47092837	-85.00367004	INLET	UNNAMED TRIBUTARY
20.031	2020	32.4728778	-85.00366272	24 CLAY	UNNAMED TRIBUTARY
20.032	2020	32.47311869	-85.00351596	FLUME	UNNAMED TRIBUTARY

20.033	2020	32.47066133	-85.00361803	INLET	UNNAMED TRIBUTARY
20.034	2020	32.48990308	-85.01936099	FLUME	UNNAMED TRIBUTARY
20.035	2020	32.48993857	-85.01935475	36 RCP	UNNAMED TRIBUTARY
20.036	2020	32.49019026	-85.01916204	42 RCP	UNNAMED TRIBUTARY
20.037	2020	32.49107255	-85.01799938	24IN STEEL	UNNAMED TRIBUTARY
20.038	2020	32.4922149	-85.01737385	30 RCP	UNNAMED TRIBUTARY
20.039	2020	32.49246951	-85.0171959	70 RCP	UNNAMED TRIBUTARY
20.040	2020	32.49274838	-85.01693394	16 RCP	UNNAMED TRIBUTARY
20.041	2020	32.49268448	-85.01690804	70 RCP	UNNAMED TRIBUTARY
20.042	2020	32.48970667	-85.02000788	FLUME	UNNAMED TRIBUTARY
20.043	2020	32.48943844	-85.02065053	24 HDPE	UNNAMED TRIBUTARY
20.044	2020	32.48938479	-85.02089399	18 RCP	UNNAMED TRIBUTARY
20.045	2020	32.48889004	-85.02122555	18 RCP	UNNAMED TRIBUTARY
20.046	2020	32.48833377	-85.02144009	FLUME	UNNAMED TRIBUTARY
20.047	2020	32.48799253	-85.02221597	FLUME	UNNAMED TRIBUTARY
20.048	2020	32.48742961	-85.02293508	FLUME	UNNAMED TRIBUTARY
20.049	2020	32.48693043	-85.02329257	24 RCP	UNNAMED TRIBUTARY
20.050	2020	32.48779613	-85.02291021	14 RCP	UNNAMED TRIBUTARY
20.051	2020	32.48777914	-85.02289192	24 RCP	UNNAMED TRIBUTARY
20.052	2020	32.48681088	-85.02341787	18 RCP	UNNAMED TRIBUTARY
20.053	2020	32.48526554	-85.02405553	36 RCP	UNNAMED TRIBUTARY
20.054	2020	32.50072654	-85.00781946	FLUME	UNNAMED TRIBUTARY
20.055	2020	32.50079658	-85.00775567	FLUME	UNNAMED TRIBUTARY
20.056	2020	32.50081976	-85.00796452	FLUME	UNNAMED TRIBUTARY
20.057	2020	32.50072189	-85.00789599	FLUME	UNNAMED TRIBUTARY
21.001	2021	32.44744576	-85.00284842	14RCP	UNNAMED TRIBUTARY
21.002	2021	32.43622711	-85.01371068	24HDPE	UNNAMED TRIBUTARY
21.003	2021	32.4375283	-85.01407368	18RCP	UNNAMED TRIBUTARY
21.004	2021	32.43756022	-85.01414297	FLUME	UNNAMED TRIBUTARY
21.005	2021	32.43751933	-85.01228392	18RCP	UNNAMED TRIBUTARY
21.006	2021	32.43748774	-85.01342513	INLET	UNNAMED TRIBUTARY
21.007	2021	32.44543343	-85.01258925	INLET	UNNAMED TRIBUTARY
21.008	2021	32.44542526	-85.012521	INLET	UNNAMED TRIBUTARY
21.009	2021	32.44239615	-85.01270692	INLET	UNNAMED TRIBUTARY
21.010	2021	32.44246669	-85.01272965	FLUME	UNNAMED TRIBUTARY

21.011	2021	32.43609241	-85.01235113	14RCP	UNNAMED TRIBUTARY
21.012	2021	32.43849137	-84.99885916	18CMP	UNNAMED TRIBUTARY
21.013	2021	32.48384305	-85.01469085	24RCP	UNNAMED TRIBUTARY
21.014	2021	32.48383181	-85.01462517	INLET	UNNAMED TRIBUTARY
21.015	2021	32.48734912	-85.01513092	18RCP	UNNAMED TRIBUTARY
21.016	2021	32.48202867	-85.01159297	INLET	UNNAMED TRIBUTARY
21.017	2021	32.48196764	-85.0116402	INLET	UNNAMED TRIBUTARY
21.018	2021	32.48232671	-85.01060099	36RCP	UNNAMED TRIBUTARY
21.019	2021	32.48232669	-85.01069066	36RCP	UNNAMED TRIBUTARY
21.020	2021	32.46799572	-85.01614038	INLET	UNNAMED TRIBUTARY
21.021	2021	32.4680617	-85.01612826	INLET	UNNAMED TRIBUTARY
21.022	2021	32.48070145	-85.01194062	16RCP	UNNAMED TRIBUTARY
21.023	2021	32.4807124	-85.01190244	18RCP	UNNAMED TRIBUTARY
21.024	2021	32.4806199	-85.01193864	18RCP	UNNAMED TRIBUTARY
21.025	2021	32.47964945	-85.01182603	INLET	UNNAMED TRIBUTARY
21.026	2021	32.4794941	-85.01183426	16CMP	UNNAMED TRIBUTARY
21.027	2021	32.49647385	-85.06351463	18RCP	UNNAMED TRIBUTARY
21.028	2021	32.49537651	-85.06337463	36RCP	UNNAMED TRIBUTARY
21.029	2021	32.49499036	-85.06394886	24RCP	UNNAMED TRIBUTARY
21.030	2021	32.49268859	-85.06440922	30RCP	UNNAMED TRIBUTARY
21.031	2021	32.4926694	-85.06422306	48RCP	UNNAMED TRIBUTARY
21.032	2021	32.45575252	-85.01687643	FLUME	UNNAMED TRIBUTARY
21.033	2021	32.45573923	-85.01685882	24RCP	UNNAMED TRIBUTARY
21.034	2021	32.46746547	-85.00945956	INLET	UNNAMED TRIBUTARY
21.035	2021	32.46746479	-85.00935996	FLUME	UNNAMED TRIBUTARY
21.036	2021	32.46556645	-85.01017262	INLET	UNNAMED TRIBUTARY
21.037	2021	32.46568903	-85.01012066	INLET	UNNAMED TRIBUTARY
21.038	2021	32.46568132	-85.01009587	INLET	UNNAMED TRIBUTARY
21.039	2021	32.43738036	-85.01749009	24RCP	UNNAMED TRIBUTARY
21.040	2021	32.43739417	-85.0174074	18RCP	UNNAMED TRIBUTARY
21.041	2021	32.43730881	-85.01740887	18RCP	UNNAMED TRIBUTARY
23.133	2023	32.522094	-85.035721	18HDPE	Unnamed Trib. To Holland
23.001	2023	32.4027239	-85.0479691		Sevenmile Creek
23.002	2023	32.3971094	-85.0473255		Tributary to Sevenmile Creek
23.003	2023	32.3951389	-85.0483765		Tributary to Sevenmile Creek

23.004	2023	32.4335379	-85.0160204		Tributary to Cochgalechee Creek
23.005	2023	32.4950433	-85.0336501		Holland Creek
23.006	2023	32.5179711	-85.0348638		Tributary to Holland Creek
23.007	2023	32.4802342	-85.0205971		Tributary to Mill Creek
23.008	2023	32.429838	-85.046844		Cochgalechee Creek
23.009	2023	32.4546575	-85.0282234		Tributary to Cochgalechee Creek
23.010	2023	32.4830409	-85.0392729		Tributary to Mill Creek
23.011	2023	32.4978137	-85.0336268		Holland Creek
23.012	2023	32.4707757	-85.0279433		Tributary to Mill Creek
23.013	2023	32.4282464	-85.0313776		Tributary to Cochgalechee Creek
23.014	2023	32.4470055	-85.0095175		Tributary to Chattahoochee River
23.015	2023	32.4947882	-85.0151735		Tributary to Mill Creek
23.016	2023	32.3787385	-85.0575658		Tributary to Sevenmile Creek
23.017	2023	32.5005645	-85.0284177		Holland Creek
23.018	2023	32.4306335	-85.0290928		Tributary to Cochgalechee Creek
23.019	2023	32.5025037	-85.0518825		Tributary to Mill Creek
23.020	2023	32.4648441	-85.0308915		Tributary to Mill Creek
23.021	2023	32.4427551	-85.0353609		cochgalechee Creek
23.022	2023	32.4415701	-85.0348143		Cochgalechee Creek
23.023	2023	32.4408004	-85.0345491		Cochgalechee Creek
23.024	2023	32.4742168	-85.0172684		Mill Creek
23.025	2023	32.4431556	-85.0206341		Tributary to Cochgalechee Creek
23.026	2023	32.4886963	-85.0514082		Mill Creek
23.027	2023	32.4886897	-85.0487562		Mill Creek
23.028	2023	32.4625089	-85.0212895		Tributary to Mill Creek
23.029	2023	32.4938501	-85.0387938		Holland Creek
23.030	2023	32.4948333	-85.0427905		Mill Creek
23.031	2023	32.5198029	-85.0248657		Tributary to Chattahoochee River
23.032	2023	32.5195701	-85.0205507		Tributary to Chattahoochee River
23.033	2023	32.5185072	-85.0184058		Tributary to Chattahoochee River
23.034	2023	32.5180666	-85.0176782		Tributary to Chattahoochee River
23.035	2023	32.4442132	-85.0097458		Tributary to Cochgalechee Creek
23.036	2023	32.444297	-85.008901		Tributary to Cochgalechee Creek
23.037	2023	32.493742	-85.022681		Tributary to Mill Creek
23.038	2023	32.465617	-85.030722		Tributary to Mill Creek

23.039	2023	32.494654	-85.055404		Tributary to Mill Creek
23.040	2023	32.484881	-85.021917		Tributary to Mill Creek
23.041	2023	32.44625	-84.998565		Tributary to Chattahoochee River
23.042	2023	32.446885	-84.99912		Tributary to Chattahoochee River
23.043	2023	32.446839	-85.00198		Tributary to Chattahoochee River
23.044	2023	32.447404	-85.002929		Tributary to Chattahoochee River
23.045	2023	32.506563	-85.049603		Tributary to Holland Creek
23.046	2023	32.391553	-85.047629		Sevenmile Creek
23.047	2023	32.425755	-85.035415		Tributary to Cochgalechee Creek
23.048	2023	32.496287	-85.018581		Tributary to Mill Creek
23.049	2023	32.463027	-85.023621		Tributary to Mill Creek
23.050	2023	32.450297	-85.021844		Tributary to Cochgalechee Creek
23.051	2023	32.472274	-85.084933		Tributary to Mill Creek
23.052	2023	32.473103	-85.09324		Tributary to Little Uchee Creek
23.053	2023	32.499315	-85.035108		Holland Creek
23.054	2023	32.509784	-85.031323		Tributary to Holland Creek
23.055	2023	32.478439	-85.021402		Mill Creek
23.056	2023	32.476017	-85.022571		Tributary to Mill Creek
23.057	2023	32.424104	-85.016031		Tributary to Cochgalechee Creek
23.058	2023	32.462875	-85.011301		Tributary to Mill Creek
23.059	2023	32.458075	-85.02324		Tributary to Cochgalechee Creek
23.060	2023	32.497384	-85.045315		Tributary to Mill Creek
23.061	2023	32.478044	-85.078987		Tributary to Mill Creek
23.062	2023	32.476895	-85.078811		Tributary to Mill Creek
23.063	2023	32.38808	-85.040835		Tributary to Sevenmile Creek
23.064	2023	32.388461	-85.044402		Tributary to Sevenmile Creek
23.065	2023	32.391785	-85.042431		Tributary to Sevenmile Creek
23.066	2023	32.392521	-85.043096		Tributary to Sevenmile Creek
23.067	2023	32.496662	-85.026229		Tributary to Holland Creek
23.068	2023	32.453585	-85.03179		Tributary to Cochgalechee Creek
23.069	2023	32.474308	-85.017848		Tributary to Mill Creek
23.070	2023	32.4382303	-84.9996028		Tributary to Cochgalechee Creek
23.071	2023	32.3763369	-85.0642896		Tributary to Sevenmile Creek
23.072	2023	32.3762321	-85.0629811		Tributary to Sevenmile Creek
23.073	2023	32.4946881	-85.0434182		Tributary to Mill Creek

23.074	2023	32.4952777	-85.0449751		Tributary to Mill Creek
23.075	2023	32.4818283	-85.0333961		Tributary to Mill Creek
23.076	2023	32.4797797	-85.0311945		Tributary to Mill Creek
23.077	2023	32.5217826	-85.0273676		Tributary to Chattahoochee River
23.078	2023	32.4917268	-85.0422403		Mill Creek
23.079	2023	32.4915307	-85.0398974		Mill Creek
23.080	2023	32.4914764	-85.0388651		Mill Creek
23.081	2023	32.4564917	-85.0321491		Tributary to Cochgalechee Creek
23.082	2023	32.4989221	-85.0419044		Tributary to Holland Creek
23.083	2023	32.4979165	-85.0461382		Tributary to Mill Creek
23.084	2023	32.4958266	-85.0399882		Tributary to Mill Creek
23.085	2023	32.5154354	-85.0244455		Tributary to Holland Creek
23.086	2023	32.4430703	-85.0247869		Tributary to Cochgalechee Creek
23.087	2023	32.4440591	-85.0279352		Tributary to Cochgalechee Creek
23.088	2023	32.4439823	-85.0306842		Tributary to Cochgalechee Creek
23.089	2023	32.3712768	-85.0506695		Tributary to Sevenmile Creek
23.090	2023	32.3733338	-85.0467134		Tributary to Sevenmile Creek
23.091	2023	32.4876231	-85.0492041		Tributary to Mill Creek
23.092	2023	32.5173338	-85.0160337		Tributary to Chattahoochee River
23.093	2023	32.5073151	-85.0024565		Tributary to Chattahoochee River
23.094	2023	32.5023236	-85.0025542		Tributary to Chattahoochee River
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23.096	2023	32.4377273	-85.0196201		Tributary to Cochgalechee Creek
23.097	2023	32.4290161	-84.9817669		Tributary to Cochgalechee Creek
23.098	2023	32.4538477	-85.0220376		Tributary to Cochgalechee Creek
23.099	2023	32.5286269	-85.0671824		Tributary to Holland Creek
23.100	2023	32.4943336	-85.0030624		Tributary to Chattahoochee River
23.101	2023	32.5129576	-85.0378703		Tributary to Holland Creek
23.102	2023	32.5107604	-85.0392077		Tributary to Holland Creek
23.103	2023	32.5094914	-85.0391509		Tributary to Holland Creek
23.104	2023	32.4993698	-85.0410641		Tributary to Holland Creek
23.105	2023	32.516016	-85.041023		silverthorn
23.106	2023	32.514591	-85.040116		silverthorn
23.107	2023	32.514854	-85.039305		silverthorn
23.108	2023	32.4990274	-85.0405068		Tributary to Holland Creek

23.109	2023	32.4425139	-85.0019893		Tributary to Cochgalechee Creek
23.110	2023	32.4281233	-85.0301898		Tributary to Cochgalechee Creek
23.111	2023	32.4858121	-85.0207843		Tributary to Mill Creek
23.112	2023	32.4635507	-85.0305978		Tributary to Mill Creek
23.113	2023	32.4621662	-85.0285621		Tributary to Mill Creek
23.114	2023	32.4630248	-85.077395		Cochgalechee Creek
23.115	2023	32.5026718	-85.0265548		Tributary to Holland Creek
23.116	2023	32.4600873	-85.0221781		Tributary to Mill Creek
23.117	2023	32.4438879	-85.0352279		Tributary to Cochgalechee Creek
23.118	2023	32.4713558	-85.0812836		Tributary to Mill Creek
23.119	2023	32.4941614	-85.0332975		Holland Creek
23.120	2023	32.5241085	-85.0330599		Tributary to Holland Creek
23.121	2023	32.5091662	-85.0477443		Holland Creek
23.122	2023	32.5088222	-85.0505808		Holland Creek
23.123	2023	32.5006282	-85.0454063		Tributary to Holland Creek
23.124	2023	32.5002109	-85.0419168		Tributary to Holland Creek
23.125	2023	32.4718364	-85.0833153		Tributary to Mill Creek
23.126	2023	32.4957945	-85.0411974		Tributary to Holland Creek
23.127	2023	32.4772185	-85.0437301		Tributary to Mill Creek
23.128	2023	32.4684013	-85.0230453		Tributary to Mill Creek
23.129	2023	32.4587541	-85.0238893		Tributary to Cochgalechee Creek
23.130	2023	32.440444	-85.028487		willowtrace east
23.131	2023	32.440444	-85.028763		willowtrace west
23.132	2023	32.4739798	-85.0293615		Tributary to Mill Creek

Outfall Reconnaissance Inventory (ORI) Flow Chart

BEGIN HERE

DESKTOP ASSESSMENT

Utilize construction plans, as-built surveys, Google Street View, etc. to observe where in the City that potential outfalls might be. This could be from stormwater detention systems, private drainage systems, etc. of commercial, industrial, residential, institutional, religious, or municipal developments.

Using desktop resources, does the detention or storm system appear to have an outlet pipe leading to the public MS4 or waterways?

YES

Within the Stormwater GIS data model, mark the location of the confluence of the outlet pipe and the public MS4 or waterways.

NO

Consider there to be no outfall from the development. Field verify.

FIELD ASSESSMENT

Use previous desktop assessment data, Stormwater GIS data, and/or consider streams that have not been walked during the current permit cycle to investigate outfalls in the field.

In the field, does the detention or storm system have an outlet leading to the public MS4 or waterways?

YES

Within the Stormwater GIS data model, record the remainder of field data.

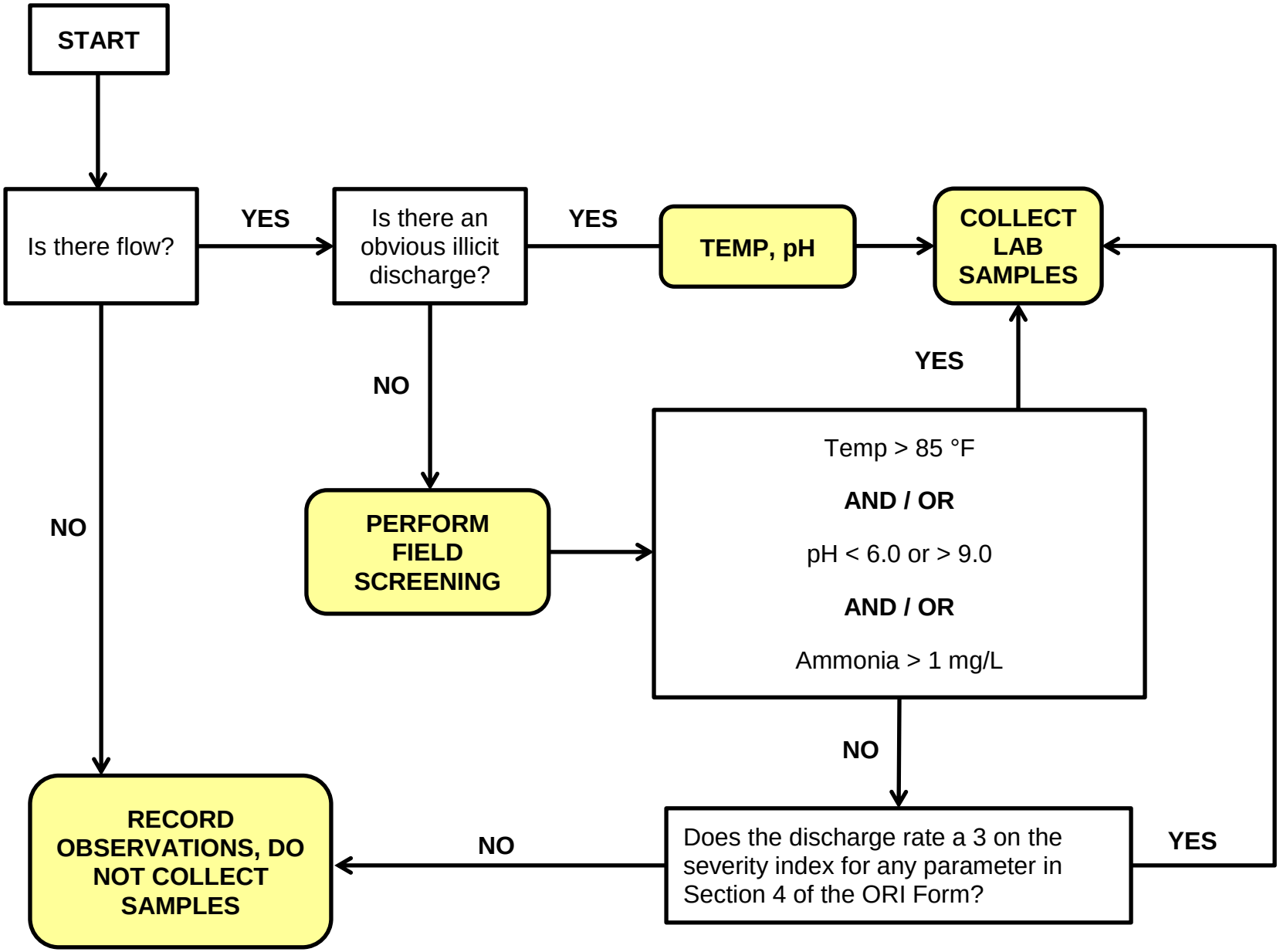
NO

Consider there to be no outfall from the development. If applicable, note this in the GIS data.

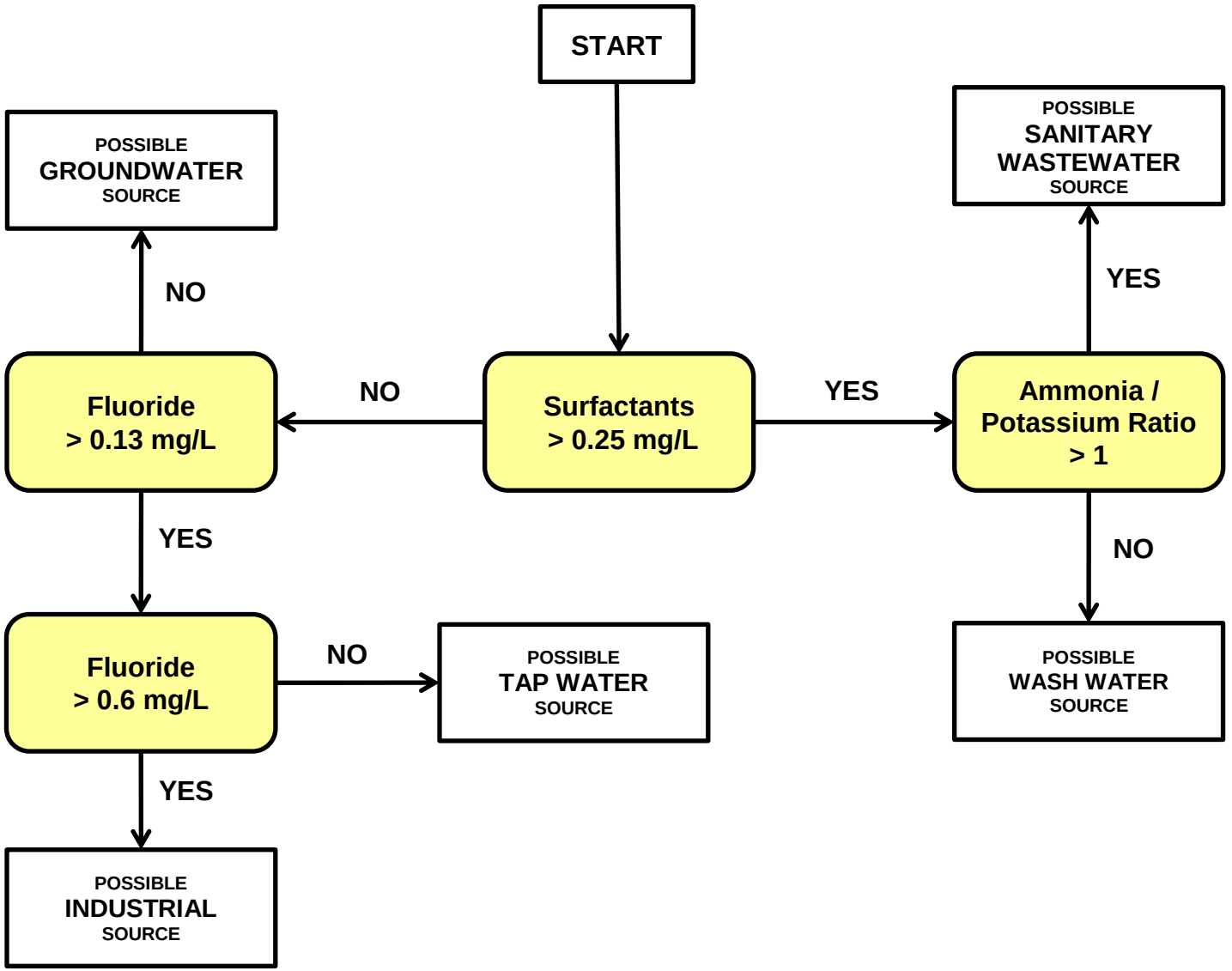
Proceed to flow charts discussing sampling procedures. Fill out “Outfall Dry Screening Fieldsheet” for the confirmed outfall and record in that year’s outfall file.

PHENIX CITY Alabama

FLOW CHART: WHEN TO SAMPLE



FLOW CHART: Evaluating Analytical Data to Determine Discharge Type



Appendix II – Supporting Documents

Public Education and Public Involvement On Storm Water Impacts

Phase II Storm Water Program

Summer 2022

Why Does Your Apartment or Subdivision Have a Pond?

Chances are your subdivision or apartment complex has a storm water pond. There are two types of ponds generally seen in residential settings. The first pond type discussed here is called a **"detention pond."** This type of pond detains the runoff water from your streets and yards for a short time (**Figure 1)**. The pond discharges the water from the pond at a controlled rate to mimic the discharge rate of this particular piece of land before your subdivision was built. The second pond type is called a **"retention pond."** This retention pond retains the water for a longer period of time and at a larger volume than the detention pond (**Figure 2)**. These retention ponds have outlet structures, but have been primarily designed to discharge this water into the atmosphere through evaporation or by percolation through soil under and around the pond. These ponds are generally less cost-effective than the detention ponds and can allow issues such as mosquito, snake, and alligator infestations. See **Figure 3** on Page 2 for a schematic of a retention pond from the EPA's "Stormwater Wet Pond and Wetland Management Guidebook, 2009."

Why do some subdivisions not have ponds? Some subdivisions were built before ordinances and regulations required them. Other subdivisions have been shown on paper not to have a higher runoff rate than pre-construction rates. For Phenix City, every new subdivision is required to have a storm water detention or retention pond to control the storm water discharge rate.

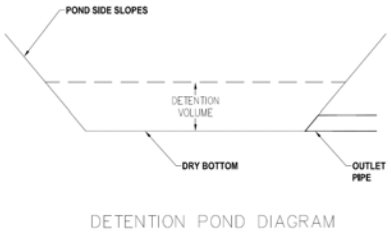


Figure 1. Detention Pond Diagram

What does the City of Phenix require of storm water ponds?

- **All outlet structures must be properly maintained and in good operation throughout the life of the ponds.**
- **All detention and retention ponds must hold the volume of water they were designed to hold. If this is not the case, these ponds must be maintained and in good operation after remediation.**
- **All storm water ponds in new commercial and residential developments are required to submit calculations showing that post-construction runoff rates will be equal to or less than pre-construction runoff rates.**

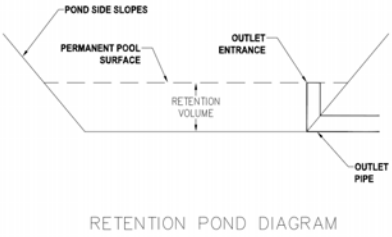
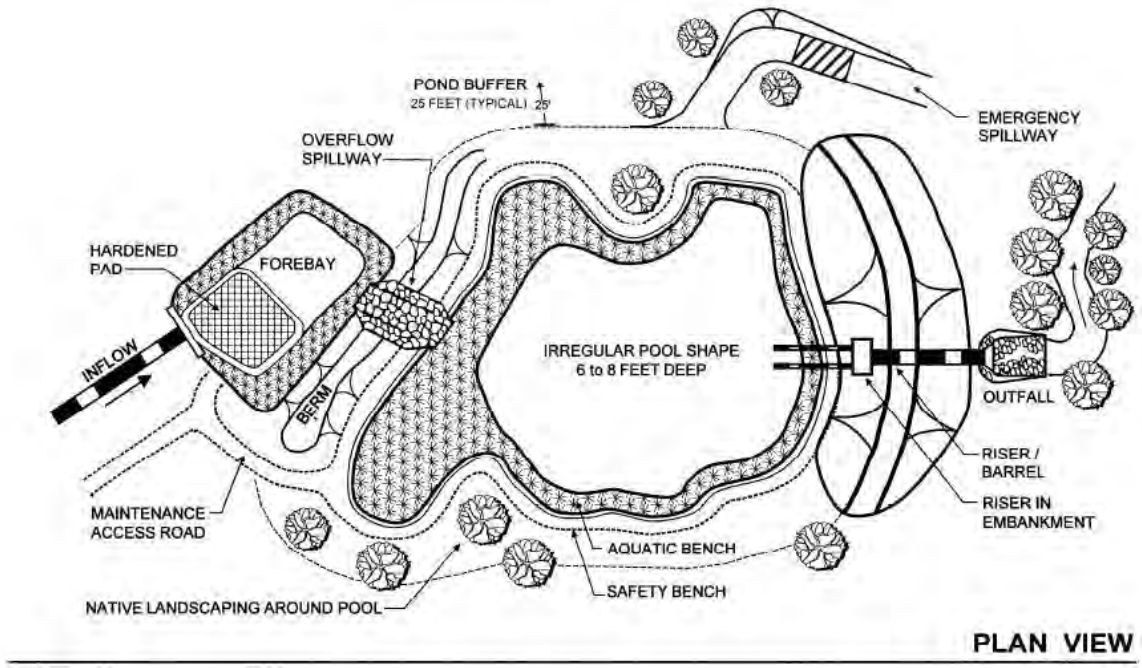


Figure 2. Retention Pond Diagram

Phase II Storm Water Program

Summer 2022

Why Does Your Apartment or Subdivision Have a Pond?



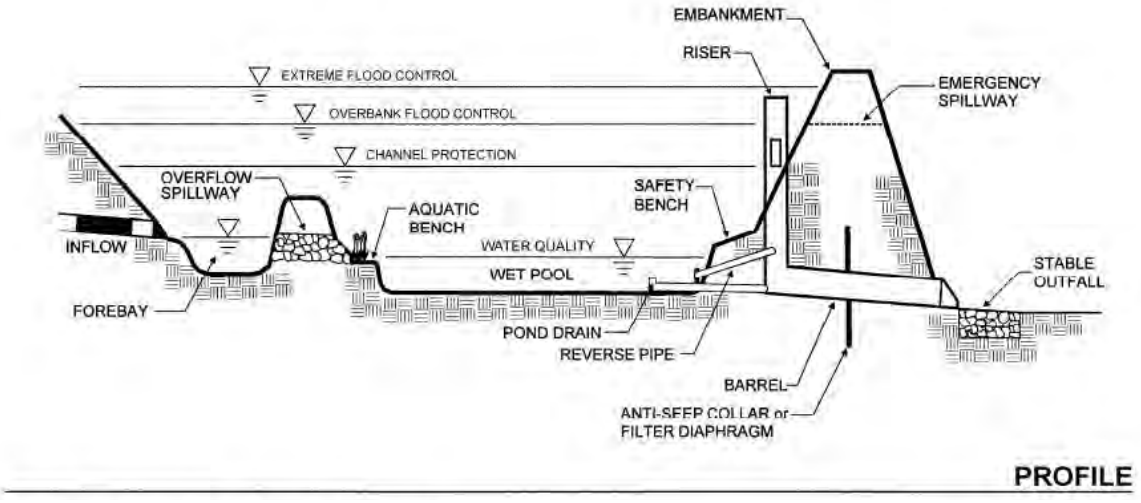
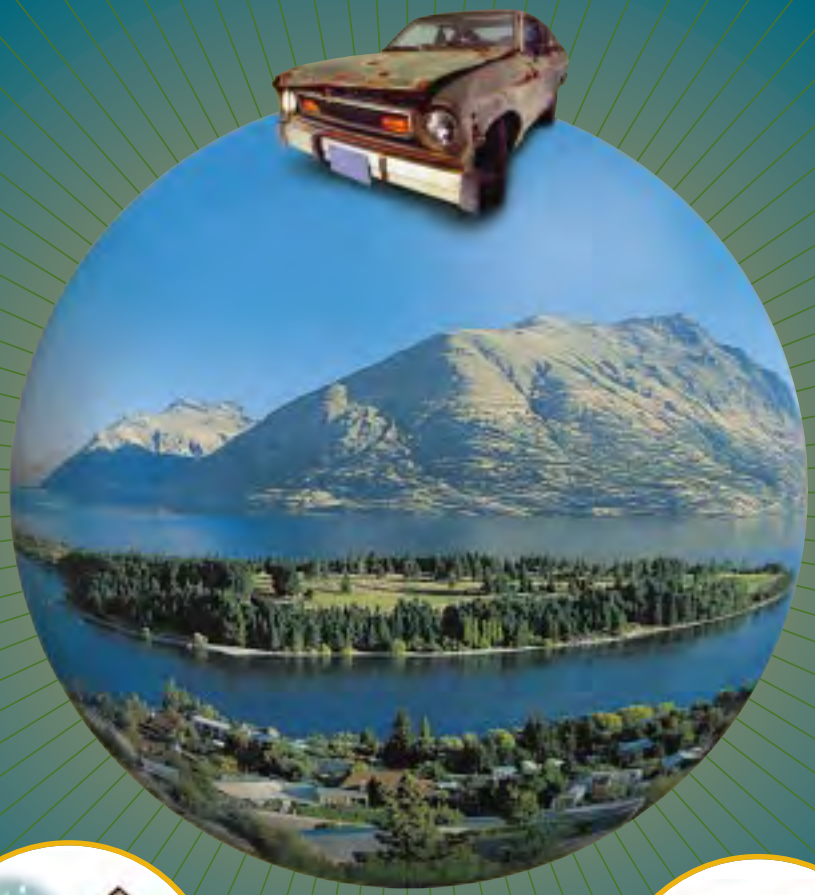


Figure 3. Stormwater Pond Schematic

Only Rain in the Drain

Stormwater protection starts with you!



Remove fluids from incoming vehicles

Drain fluids from incoming vehicles to reduce the possibility of spills when parts are removed later, and time and cost to your business from cleaning up leaks and spills.
Drain vehicle fluids before dismantling fluid-containing parts, placing vehicles in the yard for long-term storage, or crushing.

Handle drained fluids properly

Store fluids properly to reduce the amount of contaminants that end up in stormwater. Confine fluid storage to designated areas that are covered and have adequate secondary containment. Keep all storage containers away from storm drains, and don't leave open drain pans around the shop.

Drain, cover and contain all oily parts

Store engines, transmissions, and other oily parts to avoid exposure to rain or snowfall. Store these parts indoors or under a roof on an impervious surface, if you store oily parts outside, use weather- and leak-proof covered containers, or place them in vehicle bodies.

Routine housekeeping is important

Clean up spills promptly and thoroughly. Use shop rags and oil dry to clean up smaller spills, and keep spill kits available in the areas where you conduct dismantling, fluid removal, and fluid storage. Sweep paved surfaces and clean absorbent material daily to reduce sediment and contaminant buildup.

Train all relevant employees in your BMPs

Employee training is critical!
Train employees on stormwater management procedures, especially during the wet season and before it rains or snows.
All employees must be trained upon their initial hire and at least once per year thereafter.

Developed by: Sustainable Conservation www.suscon.org

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.

ADEM Alabama Department of Environmental Management
Alabama Clean Water Partnership

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

ADEM Alabama Department of Environmental Management
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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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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.

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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.

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Alabama Department of Environmental Management
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Storm Water Educational Materials Posted in City Buildings

Engineering & Public Works
Engineering Division ›
Cemetery ›
Computer-Generated Maps
Maintenance
National Flood Insurance Program
Stormwater Management
FAQs
Forms
Helpful Resources
Public Works Division ›

Roles & Responsibilities of Erosion & Sediment Control

The city's Engineering Division reviews erosion and sediment control construction best management practices plans (CBMPPs) submitted for individual developments by the engineer of record and provides comments to the engineer. The city has adopted statewide standards (i.e. the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas, latest edition) to encourage uniformity in BMP design, construction, and maintenance.

The Engineering Division conducts initial onsite walk-through inspections of construction site best management practices (BMPs) to ensure that all BMPs are installed in accordance with the approved CBMPP.

The division also conducts site inspections after each ¾-inch, 24-hour rainfall event or at least once per month. The purpose of these inspections is to document failures/deficiencies in BMPs on-site and to communicate those deficiencies to the respective permit holder. Followup inspections are made, as necessary, to ensure that corrections are being made promptly to correct any deficiencies and to restore the BMPs.

Take Action

Notice something not in compliance with our regulations? Report it through the city's online Action Center, or call 334-448-2760. Instances to report include:

- Erosion control
- Illicit discharge
- Impaired waters
- Non-compliant construction sites
- Storm drains and flooding
- Stormwater and illicit discharge ordinance violations

Reports

- 2021-2022 Annual Report
- 2020-2021 Annual Report
- 2019-2020 Annual Report
- 2018-2019 Annual Report
- 2017-2018 Annual Report
- 2016-2017 Annual Report
- 2015-2016 Annual Report
- City of Phenix City Storm Water Management Program Plan (SWMPP)

Related Documents

- Ordinance No. 2017-01: Discharge & Storm Sewer Connection Regulations
- Erosion & Sediment Control Ordinance
- Concrete Washout Design
- Erosion & Sediment Control Application

Stormwater Newsletters

- Fall 2022
- Summer 2022
- Spring 2022

Helpful Resources

- Alabama Clean Water Partnership
- Alabama Cooperative Extension Service
- Alabama Department of Environmental Management (ADEM)
- Alabama Flood Watch
- Alabama Forestry Commission
- Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas
- Alabama Soil and Water Conservation
- Alabama Sinkholes
- Alabama Water Watch
- EPA Guidance on Low Impact Development
- Environmental Protection Agency – National Pollutant Discharge Elimination System (EPA NPDES)
- Low Impact Development Handbook for the State of Alabama
- U.S. Department of Agriculture
- U. S. Fish and Wildlife
- U.S. Geological Survey

Illicit Discharge Potential (IDP)

IDP Ranking Values

Criterion	1	2	3	4	IDP Score
Average age of Development (AOD)	< 10 Years	25-50 years	> 50 years	XXX	
# of Potential Generating Sites (PGS)	< 3 sites	3-10 sites	> 10 sites	XXX	
Septic Field Density (SFD)	< 10 Fields/mi^2	20-100 fields/mi^2	> 100 fields/mi^2	XXX	
# of Illicit Dicharge Reports in past 2 years (PID)	< 5 reports	5-25 reports	> 25 reports	XXX	
Outfall Reconnaissance Inventory Results (ORI)	Unlikely	Potential	Suspect	Obvious	
				Total IDP	

2023 IDP Scores

Subwatershed	Total Sq. Mi.	# of PGS within MS4 Area	Appx. Septic	Appx. Septic Sites/mi^2	AOD	PGS	SFD	PID	ORI	Total IDP Score
Soap Creek – Chattahoochee River	44.54	5	210	4.71	2	2	1	1	1	7
Holland Creek – Mill Creek	24.57	60	550	22.39	2	3	2	1	4	12
Moon Lake – Chattahoochee River	10.83	8	230	21.24	2	2	2	1	1	8
Cochgalechee Creek	12.77	33	275	21.53	3	3	2	1	2	11
Broken Arrow Creek – Chattahoochee River	31.63	2	111	3.51	2	1	1	1	1	6
Lower Little Uchee Creek	57.43	7	3179	55.35	2	2	2	1	4	11
Cowpen Creek – Uchee Creek	31.64	0	620	19.60	2	1	1	1	1	6

Soap Creek-Chattahoochee River Subwatershed

Holland Creek-Mill Creek Subwatershed

Lower Little Uchee Creek Subwatershed

Moon Lake -Chattahoochee River Subwatershed

Phenix City Boundary

Phenix City MS4 Boundary

Cochgalechee Creek Subwatershed

Broken Arrow Creek-Chattahoochee River Subwatershed

Ihagee Creek - Nearest waterbody on 2022 303(d) list and with a TMDL

Cowpen Creek-Uchee Creek Subwatershed

Legend

Urban Areas - 2010 to 2020

- Small
- Large

2022 303(d) List - lines

Subwatersheds

HUC_12 Phenix City, AL

Name

- Broken Arrow Creek-Chattahoochee River
- Cochgalechee Creek
- Cowpen Creek-Uchee Creek
- Holland Creek-Mill Creek
- Horselot Branch-Uchee Creek
- Lower Little Uchee Creek
- Middle Little Uchee Creek
- Moon Lake-Chattahoochee River
- Soap Creek-Chattahoochee River

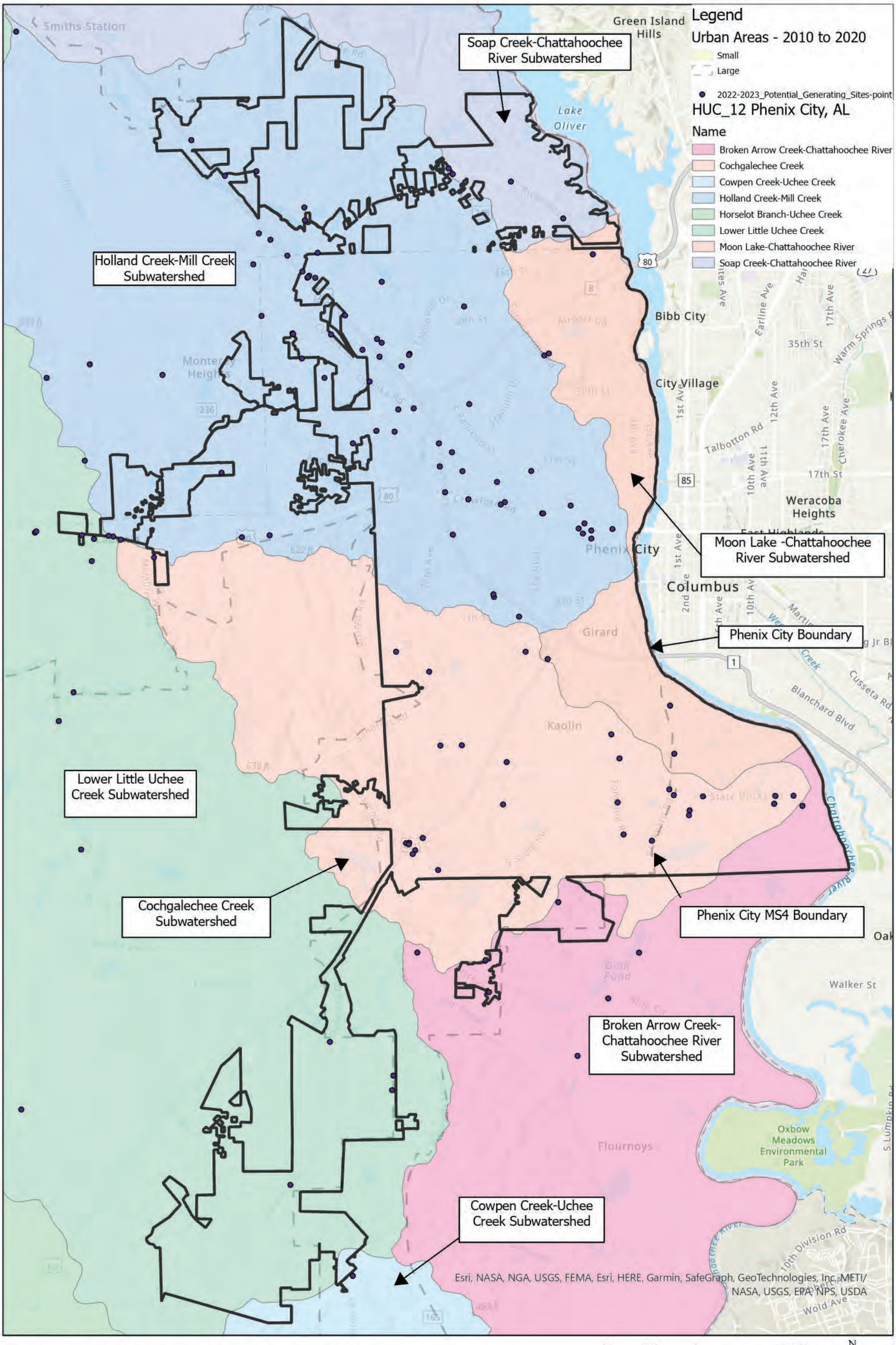
Esri, NASA, NGA, USGS, FEMA, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Subwatersheds and MS4 Area Map

Drawn by J.Foster on 4/17/2023

0 0.75 1.5 3 Miles

N



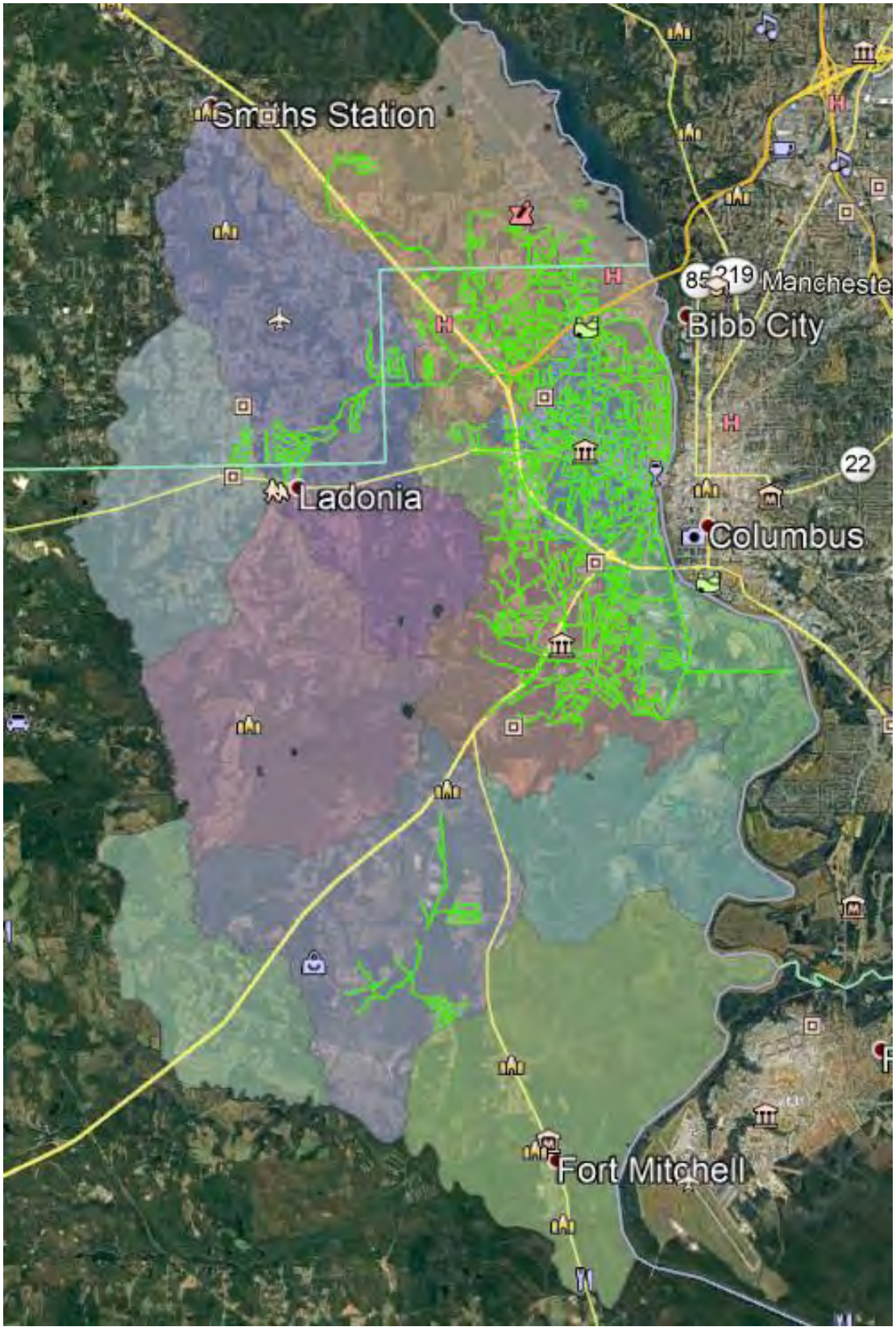
Potential Generating Sites Map

0 0.5 1 2 Miles

N

Drawn by J.Foster on 4/25/2023

Sanitary Sewer Map



Boxes in red are not within Phenix City Limits

FacName	SubWatershed	FacStreet	FacCity	FacState	RegistryID	FacLat	FacLong	NPDESIDs	RCRAIDs
104 BAYVIEW DRIVE - DUELL PROPERTY		104 BAYVIEW DRIVE	PHENIX CITY	AL	1.10071E+11	32.44812	-85.09138	ALU003765 ALU010563	
145 LEE RD 223 TRUST		LEE RD 223 ADJACENT TO 185 LEE RD 223	PHENIX CITY	AL	1.10071E+11	32.507693	-85.061717	ALU003823	
22ND AVE SERVICE STATION	Holland Creek - Mill Creek	22ND AVE AT ITS' INTERSECTION WITH US HWY 280	PHENIX CITY	AL	1.1007E+11	32.4614	-85.022	ALR10BBZ6	
280 SELF STORAGE	Moon Lake - Chattahoochee River	MARKETPLACE DRIVE	PHENIX CITY	AL	1.10071E+11	32.495281	-85.012951	ALU011012	
7785 LEE RD 240		7785 LEE RD 240	PHENIX CITY	AL	1.10071E+11	32.50096	-85.126	ALR10C1E9	
ADVANTAGE MINI STORAGE		7431 LEE ROAD 240	PHENIX CITY	AL	1.10071E+11	32.500923	-85.130829	ALR10BHRJ	
ALABAMA POWER COMPANY - PHENIX CITY GARAGE		9 STAFFORD RD	PHENIX CITY	AL	1.10071E+11	32.50051	-85.06036		ALR000065003
ALATRADE FOODS LLC	Lower Little Uchee	6 DOWNING DR	PHENIX CITY	AL	1.10033E+11	32.39943	-85.04907	ALG150156	
ARGO CONSTRUCTION	Holland Creek - Mill Creek	HIGHWAY 280	PHENIX CITY	AL	1.10007E+11	32.475968	-85.030072		ALR000011114
ARGOS PHENIX CITY PLANT	Moon Lake - Chattahoochee River	350 BRICKYARD RD	PHENIX CITY	AL	1.10022E+11	32.43956	-84.99224	ALG110042	
AUTO TRANS		30 COFFIELD DRIVE	PHENIX CITY	AL	1.10007E+11	32.47172	-85.10509		ALR000013359
AUTUMN BROOKE SUBDIVISION	Holland Creek - Mill Creek	NEAR 3787 OPELIKA ROAD	PHENIX CITY	AL	1.10045E+11	32.4981	-85.05524	ALR108590	
BAMA AUTO SALES		194 WOODLAND DR	PHENIX CITY	AL	1.10007E+11	32.444108	-85.09382	ALG180547	
BORAL BRICKS	Moon Lake - Chattahoochee River	100 BRICKYARD RD	PHENIX CITY	AL	1.1E+11	32.446261	-84.992938	ALG230006	ALR000018788
BOSWELL ROAD PIT		284 BOSWELL RD	PHENIX CITY	AL	1.1007E+11	32.42866	-85.14584	ALG890568	
BRANCH CREEK	Cochgalechee Creek	33RD AVENUE	PHENIX CITY	AL	1.1007E+11	32.45377	-85.03815	ALR10BCR5	
CARMACK INC DBA PHENIX FOUNDRY	Cochgalechee Creek	803 INDUSTRIAL CIRCLE	PHENIX CITY	AL	1.10012E+11	32.430996	-84.989823	ALG120247	ALR000021295
CENTRAL HIGH SCHOOL	Holland Creek - Mill Creek	2400 DOBBS DR	PHENIX CITY	AL	1.10022E+11	32.48452	-85.04141	ALR16D508	ALR000037416
CHATTAHOOCHEE VALLEY COMMUNITY COLLEGE	Cochgalechee Creek	2602 COLLEGE DRIVE	PHENIX CITY	AL	1.10016E+11	32.42337	-85.03122	ALR16EDE3	ALR000029629
CHS ATHLETIC FACILITY	Holland Creek - Mill Creek	2400 DOBBS DR	PHENIX CITY	AL	1.10067E+11	32.48452	-85.04141	ALR10B665	
CHS CTE ANNEX	Holland Creek - Mill Creek	DOBBS DRIVE	PHENIX CITY	AL	1.10071E+11	32.4844	-85.0384	ALR10BHD0 ALR10C0VK	
CITY OF PHENIX CITY MS4 PH II	Holland Creek - Mill Creek	601 12TH ST.	PHENIX CITY	AL	1.10014E+11	32.47412	-85.00934	ALR040019	
CONTINENTAL CARBON PHENIX CITY PLANT	Cochgalechee Creek	1500 EAST STATE DOCKS ROAD	PHENIX CITY	AL	1.1E+11	32.43372	-84.97257	ALD000052 ALD000238	
COVE CREEK SUBDIVISION - HARD-ING BUILDERS LLC		1101 HIGHWAY 280	PHENIX CITY	AL	1.10071E+11	31.954876	-83.811546	ALU010891	
COVID SUPPLY STORAGE BUILDING	Cochgalechee Creek	4TH ST S & PRENTISS DR	PHENIX CITY	AL	1.10071E+11	32.4384	-85.0199	ALR10C31V	
CRAWFORD PIT		BLEEKER RD	PHENIX CITY	AL	1.1007E+11	32.4596	-85.18949	ALR10BE88	
CULVER'S	Holland Creek - Mill Creek	HWY 280 (431S)	PHENIX CITY	AL	1.10071E+11	32.5067	-85.0536	ALR10BF60	
CVS PHARMACY #1824	Soap Creek - Chattahoochee River	5405 SUMMERVILLE ROAD	PHENIX CITY	AL	1.10046E+11	32.52025	-85.0288		ALR000052589
CVS PHARMACY #4934	Holland Creek - Mill Creek	2514 CRAWFORD RD	PHENIX CITY	AL	1.10046E+11	32.474992	-85.026224		ALR000052407
DAIRY QUEEN GRILL & CHILL	Holland Creek - Mill Creek	LOT B - ASHWOOD DRIVE	PHENIX CITY	AL	1.1007E+11	32.506111	-85.0525	ALR10BB24	
DANNY PARRISH PROPERTY		1453 LEE COUNTY ROAD 425	PHENIX CITY	AL	1.10006E+11	32.470354	-85.124489		ALR000005074
DEL TACO RESTAURANT	Holland Creek - Mill Creek	1212 E. 280 BYPASS	PHENIX CITY	AL	1.10071E+11	32.470069	-85.028779	ALR10BEMZ	
DEPPE COTTAGES		LEE ROAD 209	PHENIX CITY	AL	1.10071E+11	32.49278	-85.10374	ALR10BEQW	
DOLLAR GENERAL - PHENIX CITY, AL		10171 LEE COUNTY RD 240	PHENIX CITY	AL	1.10071E+11	32.49377	-85.08869	ALR10C3KU	
DSC ALABAMA	Lower Little Uchee	DOWNING DRIVE	PHENIX CITY	AL	1.10071E+11	32.3795	-85.0556	ALR10C1U4	
DUDLEY PROPERTY		US HWY 280; 32.5145, -85.0633.	PHENIX CITY	AL	1.10071E+11	32.512	-85.0608	ALR10BEQ9	
DYKES AND SON GRADING	Holland Creek - Mill Creek	2808 OPELIKA RD	PHENIX CITY	AL	1.10056E+11	32.48765	-85.03524	ALR10AF20	
DYKES BODY SHOP	Holland Creek - Mill Creek	1228 11TH AVE	PHENIX CITY	AL	1.10003E+11	32.47092	-85.00803		ALD982084576
DYKES HAUL PIT	Broken Arrow Creek - Chattahoochee River	SEALE ROAD	PHENIX CITY	AL	1.10064E+11	32.418889	-85.011389	ALG850074	
EAGLE POINTE SUBDIVISION	Holland Creek - Mill Creek	SAWGRASS LANE	PHENIX CITY	AL	1.10046E+11	32.50183	-85.02693	ALR109031	
EVANS CROSSING		989 LEE ROAD 213	PHENIX CITY	AL	1.10071E+11	32.480368	-85.089521	ALR10C2QW	
FAIRBURN READY MIX - PHENIX CITY PLANT	Cochgalechee Creek	25 6TH PLACE SOUTH	PHENIX CITY	AL	1.10064E+11	32.43459	-84.99307	ALG110419	
FAULK & SON, INC.	Lower Little Uchee	3610 HIGHWAY 80 WEST	PHENIX CITY	AL	1.10016E+11	32.482768	-85.031083	ALG180419 ALG180604	ALN930524001 ALR000008177
FIREHOUSE SUBS - PHENIX CITY	Holland Creek - Mill Creek	P.O. BOX 842	PHENIX CITY	AL	1.10071E+11	32.39	-85.1	ALU010841	
GATEWOOD SUBDIVISION	Holland Creek - Mill Creek	GATWOOD DRIVE	PHENIX CITY	AL	1.10046E+11	32.49189	-85.04997	ALR109322 ALU003579	
GIBBONS FENDER & BODY WORKS INC	Holland Creek - Mill Creek	1208 10TH AVENUE	PHENIX CITY	AL	1.10003E+11	32.46952	-85.00593		AL0000057265
GIL'S COLLISION CENTER		3946 US HIGHWAY 80	PHENIX CITY	AL	1.10071E+11	32.47035	-85.09776	ALR10C09D	
GILS AUTO SALES	Holland Creek - Mill Creek	22ND AVENUE AT US HIGHWAY 280/431	PHENIX CITY	AL	1.10071E+11	32.461762	-85.022097	ALR10C1J6	
GLOBAL SOLUTIONS AND LOGISTICS	Holland Creek - Mill Creek	1600 N RAILROAD ST	PHENIX CITY	AL	1.1006E+11	32.47893	-85.01585		ALR000057026
GLOVER TRACT BORROW PIT		HWY 280/431, 0.5MILES FROM RUSSELL CO LINE	PHENIX CITY	AL	1.10046E+11	32.511111	-85.058889	ALR16EHAX	
GRAND RESERVE - PHENIX CITY	Cochgalechee Creek	BETWEEN HWY 431 & OLD SEALE ROAD	PHENIX CITY	AL	1.10043E+11	32.426111	-85.035	ALR107711 ALR16EDN5	
HAMMETT STEEL LLC	Holland Creek - Mill Creek	3015 LAKEWOOD DRIVE	PHENIX CITY	AL	1.10058E+11	32.49351	-85.03724		ALR000062737
HIGH RIDGE MOBILE HOME PARK		200 LOGAN DRIVE	PHENIX CITY	AL	1.10071E+11	32.36681	-85.04529	ALR10C0YH	
IIG MINWOOL LLC	Cochgalechee Creek	908 JOHN BUSSEY DRIVE	PHENIX CITY	AL	1.10041E+11	32.432598	-84.975758		ALR000007724
IVY CREEK SUBDIVISION	Holland Creek - Mill Creek	LANDMARK DRIVE (LEE RD 456) OFF OF HWY 280/431 NOR	PHENIX CITY	AL	1.10043E+11	32.52	-85.0664	ALR109307 ALR169557	
JACK'S - PHENIX CITY	Cochgalechee Creek	RETAIL DRIVE	PHENIX CITY	AL	1.10071E+11	32.425598	-85.035398	ALR10C2Y7	
JACK'S RESTAURANT	Lower Little Uchee	3899 US HWY 80 W	PHENIX CITY	AL	1.1007E+11	32.47	-85.09001	ALR10BEEE	
JOE HUDSON COLLISION CENTER - PHENIX CITY	Holland Creek - Mill Creek	MARKETPLACE DRIVE	PHENIX CITY	AL	1.10071E+11	32.4958	-85.0437	ALR10C066	
JOHN DUDLEY		HWY 80 / ALABAMA AVE INTERSECTION	PHENIX CITY	AL	1.10071E+11	32.469471	-85.088005	ALU003917	
JOHN DUDLEY		HWY 280/431, 0.5MILES FROM RUSSELL CO LINE	PHENIX CITY	AL	1.1007E+11	32.511111	-85.058889	ALU003454	
JVL LABORATORIES WAREHOUSE		3784 OPELIKA ROAD	PHENIX CITY	AL	1.10055E+11	32.49798	-85.05512	ALR10AF38 ALU001271	
KINNETT ESTATES	Holland Creek - Mill Creek and Cochgalechee Creek	US HIGHWAY 80	PHENIX CITY	AL	1.10071E+11	32.4697	-85.0636	ALR10C08Y	
KMART 4760	Holland Creek - Mill Creek	2003 US HWY 280 BYPASS	PHENIX CITY	AL	1.10045E+11	32.479559	-85.030936		ALR000050443
LADONIA COMMERCIAL	Holland Creek - Mill Creek	US HWY 80 NW OF ITS' INTERSECTION WITH WOODLAND DR	PHENIX CITY	AL	1.1007E+11	32.469808	-85.08484	ALR10BBZ3	
LEATHERWOOD & SONS BODY SHOP	Holland Creek - Mill Creek	1225 10TH AVENUE	PHENIX CITY	AL	1.10003E+11	32.47065	-85.00594		ALD983175142
LIBERTY HILL	Holland Creek - Mill Creek	1702 20TH AVE	PHENIX CITY	AL	1.10071E+11	32.4774	-85.0215	ALR10BHR2	
MALLARD CREEK SUBDIVISION LOTS 20A, 70, 72, 73, 74, 96	Holland Creek - Mill Creek	NEAR THE WESTERN END OF TEAL DRIVE	PHENIX CITY	AL	1.10055E+11	32.47869	-85.06695	ALR10A357	
MARATHON MART #102	Moon Lake - Chattahoochee River	410 MARTIN LUTHER KING BLVD	PHENIX CITY	AL	1.1007E+11	32.45275	-85.01314	ALG340717	
MAVIS TIRES & BRAKES - PHENIX CITY	Soap Creek - Chattahoochee River	5370 RIVERCHASE RD	PHENIX CITY	AL	1.1007E+11	32.514076	-85.010564		ALR000060970
MCLENDON TRAILERS	Holland Creek - Mill Creek	58 CUTRATE ROAD	PHENIX CITY	AL	1.10069E+11	32.49793	-85.04888	ALR10BA38	
MEADWESTVACO COATED BOARD, LLC		1817 HWY 165 S	PHENIX CITY	AL	1.1001E+11	32.177396	-85.025501	AL0000817 ALR10AK30	ALD000652719 ALD041006297 ALD983186206
MERIDIAN BRICK LLC		1415 BRICKYARD RD	PHENIX CITY	AL	1.10002E+11	32.405478	-85.003149	ALG230007	ALR000018770
MERIDIAN BRICK LLC		1501 BRICKYARD RD	PHENIX CITY	AL	1.10009E+11	32.39748	-85.00821	ALG230008	ALR000018796
MISTY FOREST BORROW PIT	Lower Little Uchee	END OF WHITE PINE WAY	PHENIX CITY	AL	1.10046E+11	32.394722	-85.038611	ALR16EHBP	
MISTY FOREST III & IVA	Lower Little Uchee	WHITE PINE WAY	PHENIX CITY	AL	1.10046E+11	32.3927	-85.03882	ALR109569 ALR109570 ALR10C2L6	
NAIG2 SITE PREP	Cochgalechee Creek	FONTAINE ROAD	PHENIX CITY	AL	1.10071E+11	32.432778	-85.001587	ALR10BFCP	

OCONEE CONCRETE CO		347 WOODLAND DRIVE	PHENIX CITY	AL	1.10042E+11	32.42622	-85.09012	ALG110439		
OCONEE CONCRETE COMPANY, INC.	Cochgalechee Creek	210 STATE DOCK ROAD	PHENIX CITY	AL	1.10071E+11	32.433793	-84.992321	ALG110514		
OPELIKA ROAD PIT	Holland Creek - Mill Creek	2335 OPELIKA RD	PHENIX CITY	AL	1.10064E+11	32.481537	-85.028933	ALG890407		
ORCHARD HILLS SUBDIVISION	Cochgalechee Creek	26TH COURT	PHENIX CITY	AL	1.10045E+11	32.45099	-85.03269	ALR108353		
OWENS CORNING HT INCORPORATED	Cochgalechee Creek	908 OWENS CORNING DR.	PHENIX CITY	AL	1.1E+11	32.432598	-84.975758	ALG230009		
PARK PLACE SUBDIVISION	Holland Creek - Mill Creek	701 PARK AVE	PHENIX CITY	AL	1.10064E+11	32.45865	-85.01785	ALR10AX14		
PC FD TRAINING CENTER	Holland Creek - Mill Creek	1910 CRAWFORD ROAD	PHENIX CITY	AL	1.10071E+11	32.4746	-85.0202	ALR10C35D		
PCBOE BUS MAINTENANCE FACILITY	Cochgalechee Creek	5TH ST. S / 7TH AVE. S BEHIND SOUTH GIRARD SCHOOL	PHENIX CITY	AL	1.1007E+11	32.43891	-85.00129	ALR10BDDA		
PEP BOYS AUTO SERVICE & TIRES #1572	Holland Creek - Mill Creek	5 ASHWOOD DRIVE	PHENIX CITY	AL	1.10031E+11	32.50581	-85.05149			ALR000040121
PHENIX CITY (SUMMERVILLE RD.) NEW RETAIL STORE	Holland Creek - Mill Creek	EAST SIDE OF SUMMERVILLE ROAD AT INTERSECTION WITH	PHENIX CITY	AL	1.10071E+11	32.495	-85.0137	ALR10BHOI		
PHENIX CITY C-STORE	Cochgalechee Creek	CROSSWINDS DRIVE	PHENIX CITY	AL	1.10071E+11	32.427177	-85.035986	ALR10C2LF		
PHENIX CITY CITY OF	Lower Little Uchee	C AND D LANDFILL HWY 431 S PHENIX CITY		AL	1.10043E+11	32.289811	-85.18698	ALU004170		
PHENIX CITY COMMERCIAL SUBDIVISION	Holland Creek - Mill Creek	3603 US HIGHWAY 431 N	PHENIX CITY	AL	1.10071E+11	32.494828	-85.04089	ALR10C392		
PHENIX CITY FREIGHT	Cochgalechee Creek	900 BRICKYARD ROAD	PHENIX CITY	AL	1.10037E+11	32.42745	-84.99594			ALR000045278
PHENIX CITY MARKETPLACE	Holland Creek - Mill Creek	HWY 280 (431S)	PHENIX CITY	AL	1.1007E+11	32.5067	-85.0536	ALR10BDW8		
PHENIX CITY PIT		1371 BRICKYARD ROAD	PHENIX CITY	AL	1.1001E+11	32.41186	-84.99806	AL0059137 AL0077160		
PHENIX CITY PLANT	Lower Little Uchee	6 DOWNING DRIVE	PHENIX CITY	AL	1.10065E+11	32.39943	-85.04907	ALP000164		
PHENIX CITY RETAIL	Holland Creek - Mill Creek	3732 U.S. HWY 280	PHENIX CITY	AL	1.1007E+11	32.500583	-85.046567	ALR10BCQ2		
PHENIX CITY TRANSFER STATION	Cochgalechee Creek	610 STATE DOCKS ROAD	PHENIX CITY	AL	1.10054E+11	32.433686	-84.975565	ALG160188		
PHENIX CITY UTILITIES-PHENIX CITY WATER TREATMENT PLANT	Holland Creek - Mill Creek		PHENIX CITY	AL	1.10013E+11	32.488232	-85.026084			
PHENIX CITY WASTEWATER TREATMENT PLANT	Cochgalechee Creek	1600 EAST STATE DOCKS ROAD	PHENIX CITY	AL	1.10043E+11	32.4323	-84.9711	AL0022209 ALL022209		
PHENIX CITY WENDY'S	Cochgalechee Creek	CROSSWINDS RD	PHENIX CITY	AL	1.10071E+11	32.427112	-85.036495	ALR10C3KD		
PHENIX CITY, AL CAX	Holland Creek - Mill Creek	1411 14TH STREET	PHENIX CITY	AL	1.10071E+11	32.47303	-85.01404	ALR10BFRF		
PHENIX FOUNDRY	Cochgalechee Creek	STATE DOCK ROAD	PHENIX CITY	AL	1.10007E+11	32.431667	-84.989722			
PHENIX LUMBER CO	Holland Creek - Mill Creek	4 CUT RATE RD	PHENIX	AL	1.1006E+11	32.49138	-85.042518	ALG060399 ALR108508 ALU003461		
PINE HOLLOW LANDFIILL		18 OLD BRICKYARD ROAD	PHENIX CITY	AL	1.1001E+11	32.41187	-85.03465	ALG160158		
PRINCE MANUFACTURING COMPANY	Cochgalechee Creek	ALABAMA STATE DOCKS RD	PHENIX CITY	AL	1.10007E+11	32.466384	-85.08837			
PROJECT NUMBER: LCP 41-147-17		LEE ROAD 197	PHENIX CITY	AL	1.10071E+11	32.5003	-85.1461	ALR10BEH7		
PUBLIX SUPER MARKET #1086	Soap Creek - Chattahoochee River	5408 SUMMERVILLE ROAD SUITE 200	PHENIX CITY	AL	1.10071E+11	32.52104	-85.02949			ALR000066845
RACETRAC PROJECT #1481	Cochgalechee Creek	MARTIN LUTHER KING JR PARKWAY S	PHENIX CITY	AL	1.10071E+11	32.42783	-85.03374	ALR10C350		
RAILROAD STREET APARTMENTS	Holland Creek - Mill Creek	SOUTH RAILROAD STREET	PHENIX CITY	AL	1.10071E+11	32.4973	-85.0413	ALR10C28H		
RASMUS COTTAGES AND RV PARK		NEWSOME DRIVE	PHENIX CITY	AL	1.10071E+11	32.494578	-85.053686	ALR10C31R		
READY MIX USA, LLC-PHENIX CITY FACILITY	Holland Creek - Mill Creek	2806 DOBBS DRIVE	PHENIX CITY	AL	1.10007E+11	32.4875	-85.03779	ALG110294		
RIDGECREST SCHOOL - MULTIPURPOSE BUILDING	Cochgalechee Creek	8TH PLACE SOUTH	PHENIX CITY	AL	1.10071E+11	32.4325	-85.0205	ALR10BHD1 ALR10C0VG		
RIDGEWOOD COVE SUBDIVISION	Holland Creek - Mill Creek	DOBBS DRIVE	PHENIX CITY	AL	1.10044E+11	32.482778	-85.045278	ALR107347		
RIVERCHASE COMMERCIAL SW	Soap Creek - Chattahoochee River	RIVERCHASE DR AT J R ALLEN PJWY	PHENIX CITY	AL	1.10068E+11	32.51921	-85.0192	ALR10B975		
ROBINSON ASPHALT PLANT		1250 LONESOME PINE ROAD	PHENIX CITY	AL	1.10068E+11	32.41082	-85.02337	ALG020225 ALG180907		
ROBINSON GRAVEL PIT	Broken Arrow Creek - Chattahoochee River	ABERCROMBIE ROAD	PHENIX CITY	AL	1.10069E+11	32.40636	-85.02281	ALG890498		
ROYAL OAKS II		LEE ROAD 208	PHENIX CITY	AL	1.10044E+11	32.489423	-85.115454	ALR109395 ALR16EH10		
RT TRANSPORTATION	Holland Creek - Mill Creek	4414 BRIDGEWATER CIRCLE	PHENIX CITY	AL	1.10037E+11	32.50526	-85.04052			ALR000044800
RUSSELL CO COMMUNITY HOSPITAL DBA JACK HUGHSTON MEMORIAL HOSPITAL	Moon Lake - Chattahoochee River	4401 RIVER CHASE DR	PHENIX CITY	AL	1.10068E+11	32.50909	-85.00569			ALR000059907
RUSSELL COUNTY DEPARTMENT OF HUMAN RESOURCES	Holland Creek - Mill Creek	NEAR CORNER OF OPELIKA RD AND 20TH ST	PHENIX CITY	AL	1.10071E+11	32.4789	-85.0272	ALR10BFKS		
S&S CLEANERS INC DBA TRI CITY CLEANERS	Holland Creek - Mill Creek	700 13TH ST	PHENIX CITY	AL	1.10003E+11	32.47085	-85.00245			ALD041761339
SA RECYCLING	Cochgalechee Creek	309 STATE DOCK ROAD	PHENIX CITY	AL	1.10038E+11	32.43362	-84.98751	ALG180683		ALR000046243
SHADOW WOOD COMMERCIAL	Holland Creek - Mill Creek	HWY 280/431 BETWEEN OPELIKA & PHENIX CITY	PHENIX CITY	AL	1.10071E+11	32.524972	-85.071936	ALR10BHBP		
SMITH CONTRACT PAINTING		93 LEE ROAD 212	PHENIX CITY	AL	1.10007E+11	32.49189	-85.09581			ALR000012054
SMITHS STATION STORAGE		110 LEE ROAD 562	PHENIX CITY	AL	1.1007E+11	32.540072	-85.100844	ALR10BCWF		
SONIC/CARWASH PHENIX CITY AL	Holland Creek - Mill Creek	US HIGHWAY 80	PHENIX CITY	AL	1.10071E+11	32.469907	-85.085592	ALR10C1FP		
SOUTHEAST TRUCK & TRAILER REFURBISHERS INC	Cochgalechee Creek	800 MEADOWLANE DRIVE	PHENIX CITY	AL	1.10003E+11	32.44226	-85.00263			ALR000013409
SOUTHERN PINES COTTAGES		U.S. HIGHWAY 80	PHENIX CITY	AL	1.10071E+11	32.460235	-85.120868	ALR10C2YN		
ST-057-011-003 PS 1772		SR1 US280 FROM JUST NORTH OF PRICE ROAD TO JCT OF	PHENIX CITY	AL	1.1007E+11	32.505833	-85.052778	ALR10BBNV		
SUMMER VINEYARD S/D	Cochgalechee Creek	WHITEROCK RD AT HWY 80 E	PHENIX CITY	AL	1.10046E+11	32.4669	-85.0781	ALR109471		
TAYLOR PARTS INC.	Holland Creek - Mill Creek	1921 CRAWFORD RD	PHENIX CITY	AL	1.10003E+11	32.47427	-85.02086			ALD983182155
TAYLOR PARTS OF COLUMBUS INC	Holland Creek - Mill Creek	1012 THIRTEENTH STREET	PHENIX CITY	AL	1.10003E+11	32.47163	-85.00707			ALR000008698
THE BATTERY MAN		39 SPRING VALLY ROAD	PHENIX CITY	AL	1.10003E+11	32.46812	-85.12473			ALD983195025
THE HOME DEPOT #HD0817	Holland Creek - Mill Creek	3784 HWY 280 -431 NORTH	PHENIX CITY	AL	1.10023E+11	32.5059	-85.05269			ALR000037499
THE VILLAGE AT CROSSWINDS	Cochgalechee Creek	US HWY 431	PHENIX CITY	AL	1.1007E+11	32.426937	-85.03607	ALR10BD37		
TIRES TODAY STORE		US HWY 80 E	PHENIX CITY	AL	1.10065E+11	32.470528	-85.097518	ALR10B085		
TNT CUSTOM BUILT CABINETS	Holland Creek - Mill Creek	330 LEE ROAD 456	PHENIX CITY	AL	1.10037E+11	32.52065	-85.06119			ALR000045153
TOMMY'S BODY SHOP	Holland Creek - Mill Creek	1015 12TH PLACE	PHENIX CITY	AL	1.10003E+11	32.47022	-85.00732			ALD983191495
TRACTOR SUPPLY COMPANY #1719	Holland Creek - Mill Creek	2012 HWY 280-431 NORTH	PHENIX CITY	AL	1.10063E+11	32.508901	-85.056092			ALR000057653
TRINITY LAKE		LEE RD 307	PHENIX CITY	AL	1.1007E+11	32.51382	-85.0532	ALR10BD54		
TRINITY RIDGE		456 LEE COUNTY 307	PHENIX CITY	AL	1.10071E+11	32.5156	-85.0533	ALR10C1XM		
UCHEE MINE		HIGHWAY 80	PHENIX CITY	AL	1.10009E+11	32.46	-85.1325	AL0058629		
VECTORPLY CORPORATION	Holland Creek - Mill Creek	3503 LAKEWOOD DRIVE	PHENIX CITY	AL	1.1001E+11	32.49524	-85.03593	ALG240066		
VECTORPLY WAREHOUSE ADDITION	Holland Creek - Mill Creek	LAKEWOOD DRIVE	PHENIX CITY	AL	1.1007E+11	32.495084	-85.036025	ALR10BE85		
VOGUE INTERNATIONAL., PHENIX CITY DISTRIBUTION CENTER	Cochgalechee Creek	903 FONTAINE ROAD	PHENIX CITY	AL	1.1007E+11	32.42832	-85.00061			ALR000062661
WADE JURNEY HOMES IN WILLOW TRACE SD	Cochgalechee Creek	WILLOW BRANCH DRIVE	PHENIX CITY	AL	1.1007E+11	32.44074	-85.0273	ALU003581		
WADE STORE ALL	Holland Creek - Mill Creek	PIERCE ROAD PHENIX DRIVE	PHENIX CITY	AL	1.10071E+11	32.5093	-85.0511	ALR10BHB2		
WAL-MART SUPERCENTER #1284	Holland Creek - Mill Creek	3700 HWY 280/431 NORTH	PHENIX CITY	AL	1.10012E+11	32.295172	-85.023782			ALR000023895
WALMART NEIGHBORHOOD MARKET #5903	Holland Creek - Mill Creek	3864 US HIGHWAY 80 WEST	PHENIX CITY	AL	1.10067E+11	32.46937	-85.08357			ALR000059493
WATERFORD SUBDIVISION		701 13TH STREET	PHENIX CITY	AL	1.1007E+11	32.4923	-85.0767	ALR10BBNN		
WENDY'S PHENIX CITY	Holland Creek - Mill Creek	BETWEEN HOLIDAY INN AND REGIONS BANK	PHENIX CITY	AL	1.10071E+11	32.49678	-85.04053	ALR10C12W		
WHITEWATER VILLAGE	Cochgalechee Creek	17TH ST AND 4TH AVE	PHENIX CITY	AL	1.1007E+11	32.45377	-85.01678	ALR10BDN2		
WILLOW TRACE	Cochgalechee Creek	WILLOW BRANCH DRIVE	PHENIX CITY	AL	1.1007E+11	32.44074	-85.0273	ALR10BEJ6		
WILLOW TRACE SUBDIVISION- LOTS 1, 7, 56-61, 65-68, 72-82, 84-89, 91-100, 103-149	Cochgalechee Creek	WEST OF KNOWLES ROAD JUST SOUTH OF SUMMERWIND DRIV	PHENIX CITY	AL	1.10054E+11	32.4407	-85.03084	ALR109742		
WOMMACK ROAD DIRT PIT		INTERSECTION OF US HWY 80 & WOMMACK ROAD	PHENIX CITY	AL	1.10065E+11	32.469978	-85.059024	ALG890419		
ZIPPY MART AL-553	Holland Creek - Mill Creek	1412 14TH ST	PHENIX CITY	AL	1.10033E+11	32.47302	-85.01389			ALD983170143

Illicit Discharge Potential (IDP) Flow Chart

STEP 1

Open Phenix City subwatersheds map, Phenix City MS4 area map, Phenix City boundary map, Phenix City outfalls map, the sanitary sewer maps for Phenix City, Russell County, and Smiths Station, and the tax parcel maps for Russell and Lee Counties.

STEP 2

DATA ACQUISITION

Download list of Potential Generating Sites (PGS) from EPA ECHO database and overlay on MS4, City, and subwatershed boundary maps

View the County Tax Parcels map online to estimate the average age of development (AOD) for each subwatershed within the MS4 area <u>AND</u> within the City Boundary

Locate all Illicit Discharge reports from the Action Center and in the IDDE Folder from last 2 years

Sites that are not connected to sanitary lines in the Phenix City, Russell County, and Smiths Station utility areas are considered to have septic fields

View the Outfall Reconnaissance layer and the number of outfalls with each type of ranking

STEP 3

IDP CRITERION

# of PGS per subwatershed:	**SCORE**
<3 sites	1
3-10 sites	2
>10 sites	3
NOT POSSIBLE	4

Average AOD per subwatershed:	**SCORE**
<10 years	1
25-50 years	2
>50 years	3
NOT POSSIBLE	4

# of Illicit Discharges in past 2 years per subwatershed:	**SCORE**
<5 reports	1
5-25 reports	2
>25 reports	3
NOT POSSIBLE	4

# of septic fields per subwatershed:	**SCORE**
<10 fields/mi^2	1
20-100 fields/mi^2	2
>100 fields/mi^2	3
NOT POSSIBLE	4

Average of all outfalls per subwatershed:	**SCORE**
Unlikely	1
Potential	2
Suspect	3
Obvious	4

STEP 4

SUBWATERSHED IDP SCORING

<u>Subwatersheds in Phenix City</u>

Soap Creek—Chattahoochee River

Holland Creek—Mill Creek

Moon Lake—Chattahoochee River

Cochgalechee Creek

Broken Arrow Creek—Chattahoochee River

Lower Little Uchee Creek

Cowpen Creek—Uchee Creek

Add all criterion scores for each subwatershed together to get the total IDP score for each subwatershed. The highest possible IDP score is 16 and the lowest possible IDP score is 5. Any subwatershed with a score between 10-16 will be labeled as a “Priority Area.” Any priority area will have outfalls inspected at a rate of at least 20% per year of total outfalls within that subwatershed.

PHENIX CITY Alabama

Action Center

(Example)

Jonathan Foster

From: Public Works
Sent: Friday, July 8, 2022 4:28 PM
To: Jonathan Foster
Cc: Angel Moore; Michael Pattillo
Subject: FW: Action Center Request "Storm Drains & Flooding"

From: Do Not Reply <donotreply@phenixcityal.us>
Sent: Friday, July 8, 2022 4:14 PM
To: Public Works <PublicWorks@phenixcityal.us>
Subject: Action Center Request "Storm Drains & Flooding"

From: [redacted]
Subject: Action Center Request

Message Body:

Nature of Problem: Storm Drains & Flooding

Description of Problem: I've had property on 18th court for30 yrs. I've repaired my drive so many times it's unbelievable. I'm sick of the drainage water that runs off if [redacted] court right into my drive way. And now that the [redacted] are being being built we have dirt and sediment mixed in. I have many more photos system won't let me upload any photos

Location: Corner of [redacted] and [redacted] and [redacted]

Contact Information

Name: [redacted]
Email: [redacted]
Phone Number: [redacted]

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

City of Phenix City
Engineering Department

Inspection Form

Date	07/18/2022	**Time**	02 : 45 pm	**Inspector**	Jonathan Foster (QCI# T7190)
Rain Event	✔	**Rainfall (in.)**	1.20	**Site Name/Type**	[redacted]
ADEM Sign		**Rain Gauge Present**		**Site Location**	[redacted] St intersection

Lot #/Location	OF	SF	IP	TD	SP	L	CEP	CW	ECB	Notes
										Rain event was on Thursday evening, 7/13/2022. Rain gauge at Engineering yard was used for measurements.
										Inspection was triggered by rain event and complaint from individuals living down 18th St.

OF - Outfall SF - Silt Fence IP - Inlet Protection TD - Trash and Debris SP - Soil Pile/Bare Soil L - Landscaping CEP - Construction Exit Pad
CW - Concrete Washout ECB - Erosion Control Blanket

General Comments	I spoke with the site super on site and informed him that we received pictures of large amounts of turbid water coming from site. He informed that he would have silt fence put up in areas where silt fence was no present and where it was obvious that silt was leaving the site. I asked him to clean the silt out of 20th Ave and 18th St. He said he would get all of it done the next day (7/19/2022).

City of Phenix City - Engineering 1206 7th Ave., Phenix City, AL 36867	**Inspector's Signature**	Jonathan Foster Digitally signed by Jonathan Foster Date: 2022.08.01 11:35:15 -04'00'

City of Phenix City
Engineering Department

Inspection Form

Date	08/01/2022	**Time**	11 : 05 am	**Inspector**	Jonathan Foster (QCI# T7190)
Rain Event		**Rainfall (in.)**		**Site Name/Type**	[redacted]
ADEM Sign		**Rain Gauge Present**		**Site Location**	[redacted] Street intersection

Lot #/Location	OF	SF	IP	TD	SP	L	CEP	CW	ECB	Notes
										Monthly inspection. Follow-up for corrective actions noted in 07182022 inspection report.

OF - Outfall SF - Silt Fence IP - Inlet Protection TD - Trash and Debris SP - Soil Pile/Bare Soil L - Landscaping CEP - Construction Exit Pad
CW - Concrete Washout ECB - Erosion Control Blanket

General Comments	Silt fence was not present in areas that I discussed with the super on 07182022 that needed to be addressed. The silt was also not swept from the streets on 18th St. The 07182022 inspection was the verbal warning for issues noted. We will issue a Notice of Violation.

City of Phenix City - Engineering 1206 7th Ave., Phenix City, AL 36867	**Inspector's Signature**	Jonathan Foster Digitally signed by Jonathan Foster Date: 2022.08.01 11:40:35 -04'00'

PHENIX CITY Alabama
DEPARTMENT OF ENGINEERING / PUBLIC WORKS
601 12th Street | Phenix City, AL 36867 | Ph: 334-448-2760 | Fx: 334-291-4848 | phenixcityal.us

VIA CERTIFIED MAIL

August 1, 2022

[redacted]

Re: Notice of Violation
Erosion and Sediment Control Policy
[redacted] Development, [redacted], Phenix City, AL

To whom it may concern:

An inspection was performed on July 18, 2022 by City personnel in response to a qualifying rain event and a citizen complaint. The complaint stated that turbid water was exiting the [redacted] Development at [redacted] 20th Avenue and flowing down 18th Street. During the July 18 inspection, the site superintendent was shown the below issues and he told City personnel that the issues would be remediated the next day (July 19, 2022). A follow-up inspection was performed on August 1, 2022 and the issues noted below were still present from the July 18 inspection. You are hereby issued a Notice of Violation of the City of Phenix City Erosion and Sediment Control Policy due to the conditions below:

1) Best management practices (BMPs) for erosion and sediment control were not properly installed and/or maintained during this inspection. This includes no inlet protection along 20th Avenue or sediment barrier at all points where silt might leave the site. The sediment barrier was specifically required by City personnel during the July 18 inspection.
2) The silt on 18th Street, which came from the areas of [redacted] not protected by a sediment barrier, was not removed as required by City personnel during the July 18 inspection.

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

City of Phenix City
Engineering Department

Inspection Form

Date	08/05/2022	**Time**	01 : 30 pm	**Inspector**	Jonathan Foster (QCI# T7190)
Rain Event		**Rainfall (in.)**		**Site Name/Type**	[redacted] ([redacted])
ADEM Sign		**Rain Gauge Present**		**Site Location**	[redacted]

Lot #/Location	OF	SF	IP	TD	SP	L	CEP	CW	ECB	Notes
										Follow-up inspection after NOV from 08012022. [redacted] from [redacted] called me to let me know they thought they had remediated.
East border		✔					✔			Silt fence was placed in areas where water was leaving the site. No CEP was placed, but several hay bales were placed at the entrance to prevent sedimentation off site.
										The streets were swept and there was only residual dirt remaining when I left the site.

OF - Outfall SF - Silt Fence IP - Inlet Protection TD - Trash and Debris SP - Soil Pile/Bare Soil L - Landscaping CEP - Construction Exit Pad
CW - Concrete Washout ECB - Erosion Control Blanket

General Comments	The contractors ([redacted]) were both on site to meet with me concerning the issues noted in the NOV. They did not do everything correctly before I got there, so I watched them put more silt fence up, clean out 20th Ave and 18th St, and they placed hay bales at the entrance that turbid water was leaving from on the 08012022 inspection.

City of Phenix City - Engineering 1206 7th Ave., Phenix City, AL 36867	**Inspector's Signature**	Jonathan Foster Digitally signed by Jonathan Foster Date: 2022.08.09 15:44:15 -04'00'

Land Disturbance Permits

(Example)

PHENIX CITY, ALABAMA

LAND DISTURBING PERMIT

ENGINEERING DEPARTMENT PHONE 334-448-2760

PERMIT NO. 22-08

Owner: Evermore Homes - Kevin Gammon [redacted]

Contractor: Evermore Homes -

Address: Lots 127-129, 132-135, 150 Phase III Misty Forest

Lots 1, 5, 10-11, 23-26, 28, 112 Phase IVA Misty Forest

PERMIT ISSUANCE FOR:

Clearing, grubbing, grading and installation and maintenance of BMP's

POST THIS CARD

NOTIFY ENGINEERING DEPARTMENT 48 HOURS

PRIOR TO COMMENCING WORK

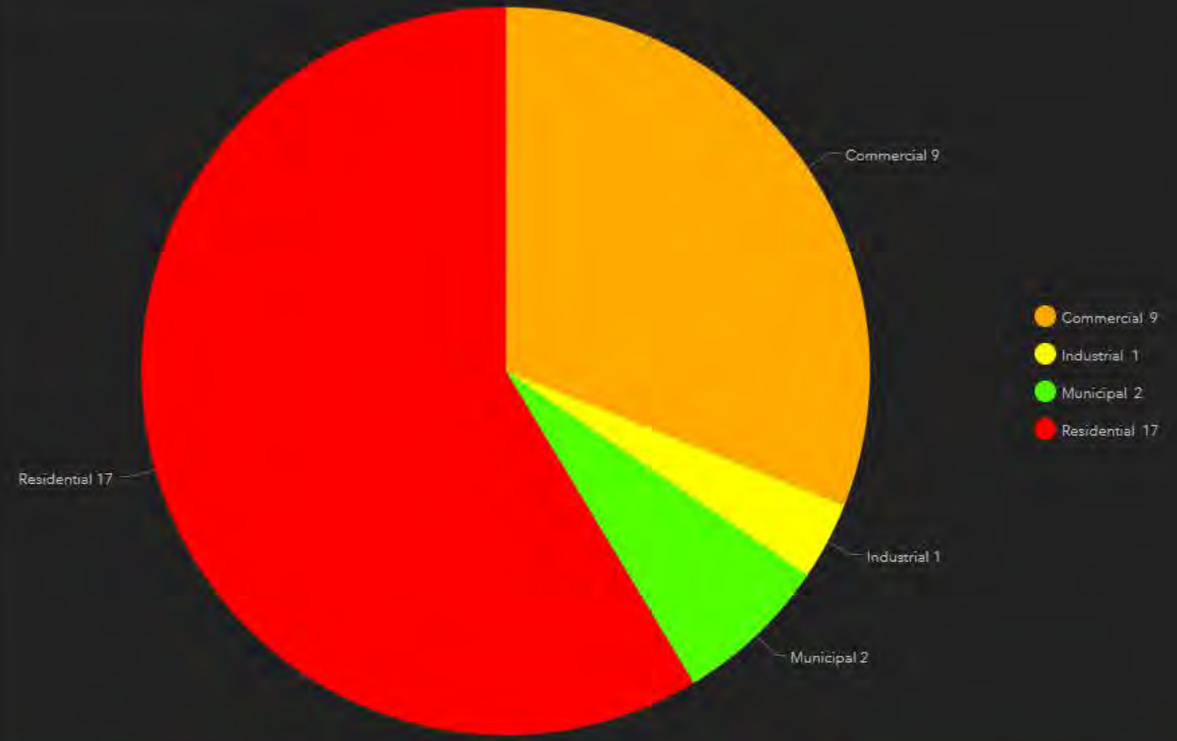
APPROVED PLANS MUST BE RETAINED ON THE JOB SITE AND THIS CARD KEPT POSTED UNTIL FINAL INSPECTION HAS BEEN MADE.

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

DO NOT REMOVE OR DEFACE THIS CARD UNTIL CONSTRUCTION IS COMPLETE

Construction Site Inspection
(Example, Resolved Following Verbal Notice and Notice of Violation)

Active Construction Site Types



Total Inactive Sites

10

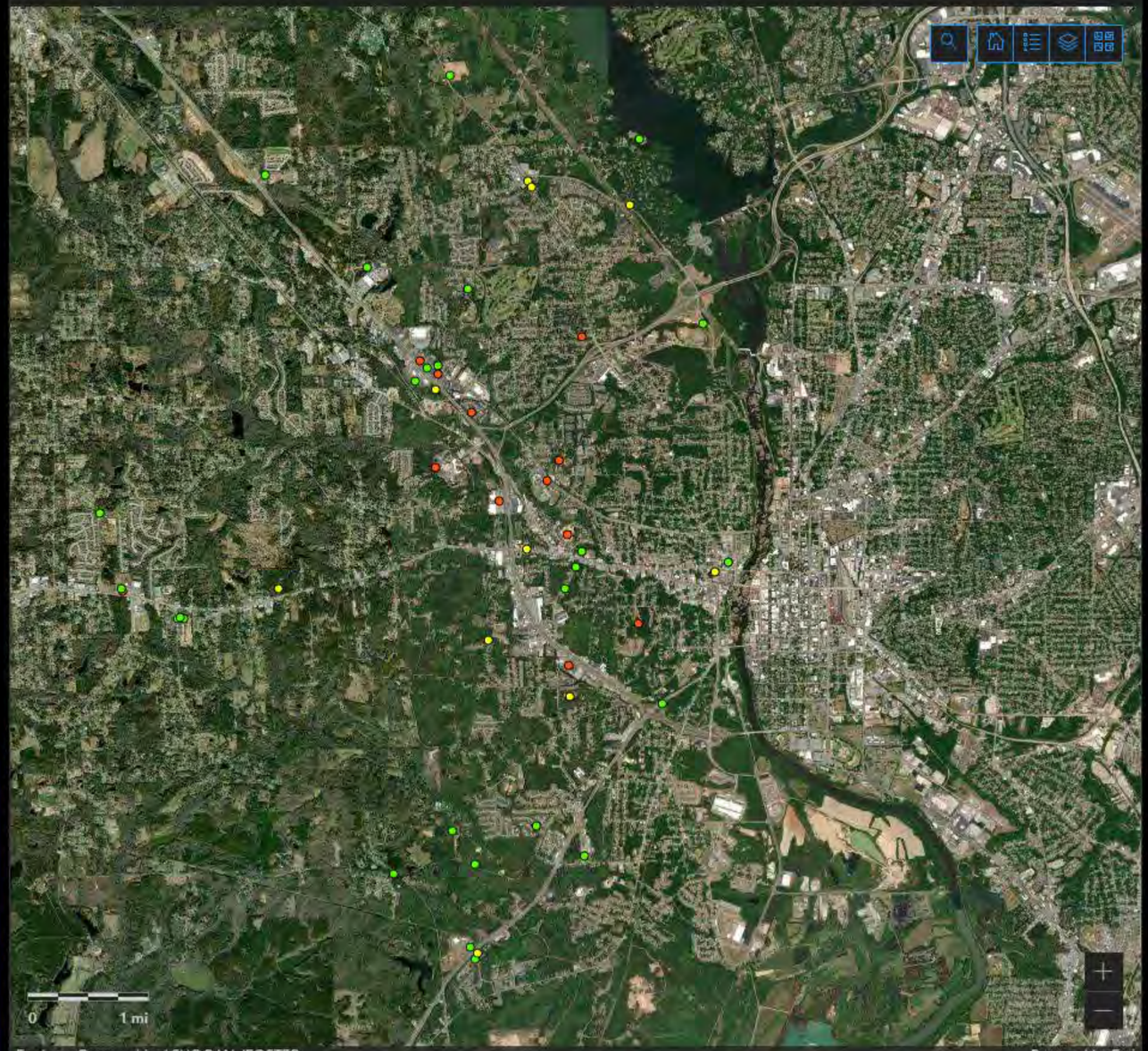
Total Completed Sites Since 2023

13

Total Active Construction Sites

29

Construction Sites



Jonathan Foster

From: Jonathan Foster
Sent: Friday, September 23, 2022 5:07 PM
To: [redacted]
Cc: Angel Moore; Michael Pattillo
Subject: [redacted] - Stormwater
Attachments: 1CFF69BE-584C-4A49-B029-B55B8394B8CE.jpeg; 58BA2801-F32F-4C07-96B9-3848D5B368DF.jpeg; 90039452-E4F1-4A4C-9217-2088CA4721A3.jpeg

[redacted],

Please address the following issues as soon as you can.

1. There is a large pile of shingles, sheetrock, and other construction debris on the southeastern side of the property. Please have this debris and any other trash placed in an appropriate waste container and/or hauled offsite ASAP.
2. There is no secondary containment for all three of your refueling tanks. Please see to it that you get tanks that have adequate containment that can contain the volume of the largest container plus freeboard from stormwater.
3. There is also no proper cover for one of your tanks that is completely open on the top. Please ensure these tanks get covered properly. The picture attached of the tank opening is from 8/3, but the tank looked the same on 9/23/22.
4. It does not matter what is in your tanks, but please label them properly.
5. Depending on the volumes of these tanks, you might need an SPCC plan. The maximum total volume of tanks over 55 gallons allowed on site without an SPCC plan is 1319 gallons. At 1320 gallons, you need an SPCC plan. From the looks of it, you are over this volume on site. You can either remove tanks to get below this 1320 gallon limit or you can have an SPCC plan written and stamped by an Engineer.
6. There is no inlet protection at any of the inlets in the subdivision. Please have protection placed as soon as you can.
7. Ensure your QCI is catching these things before we do and that you fix them before we find them. This will save you and your crew the headache of receiving emails and letters from us about these issues.

I will be out on Friday 9/30 at the latest to check on these issues. Let me know if you have any questions. Please consider this a verbal warning.

Thanks,

Jonathan Foster
Stormwater and Erosion Control Coordinator
City of Phenix City, AL
Office (334) 448-2768
jfoster@phenixcityal.us

PHENIX CITY

PHENIX CITY Alabama

DEPARTMENT OF ENGINEERING / PUBLIC WORKS

601 12th Street | Phenix City, AL 36867 | Ph: 334-448-2760 | Fx: 334-291-4848 | phenixcityal.us

DR. R. GRIFF GORDY
Mayor Pro Tem / At Large

STEVE BAILEY
Councilmember District 1

EDDIE N. LOWE
Mayor

VICKEY CARTER JOHNSON
Councilmember District 2

ARTHUR L. DAY, JR.
Councilmember District 3

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

VIA CERTIFIED MAIL

October 4, 2022

[redacted]
Phenix City, AL 36867

Re: Notice of Violation
Erosion and Sediment Control Policy
Summerville Highlands Subdivision

Dear Mr. [redacted]

You are hereby issued a Notice of Violation of the City of Phenix City Erosion and Sediment Control Ordinance (2007-07) due to the conditions below:

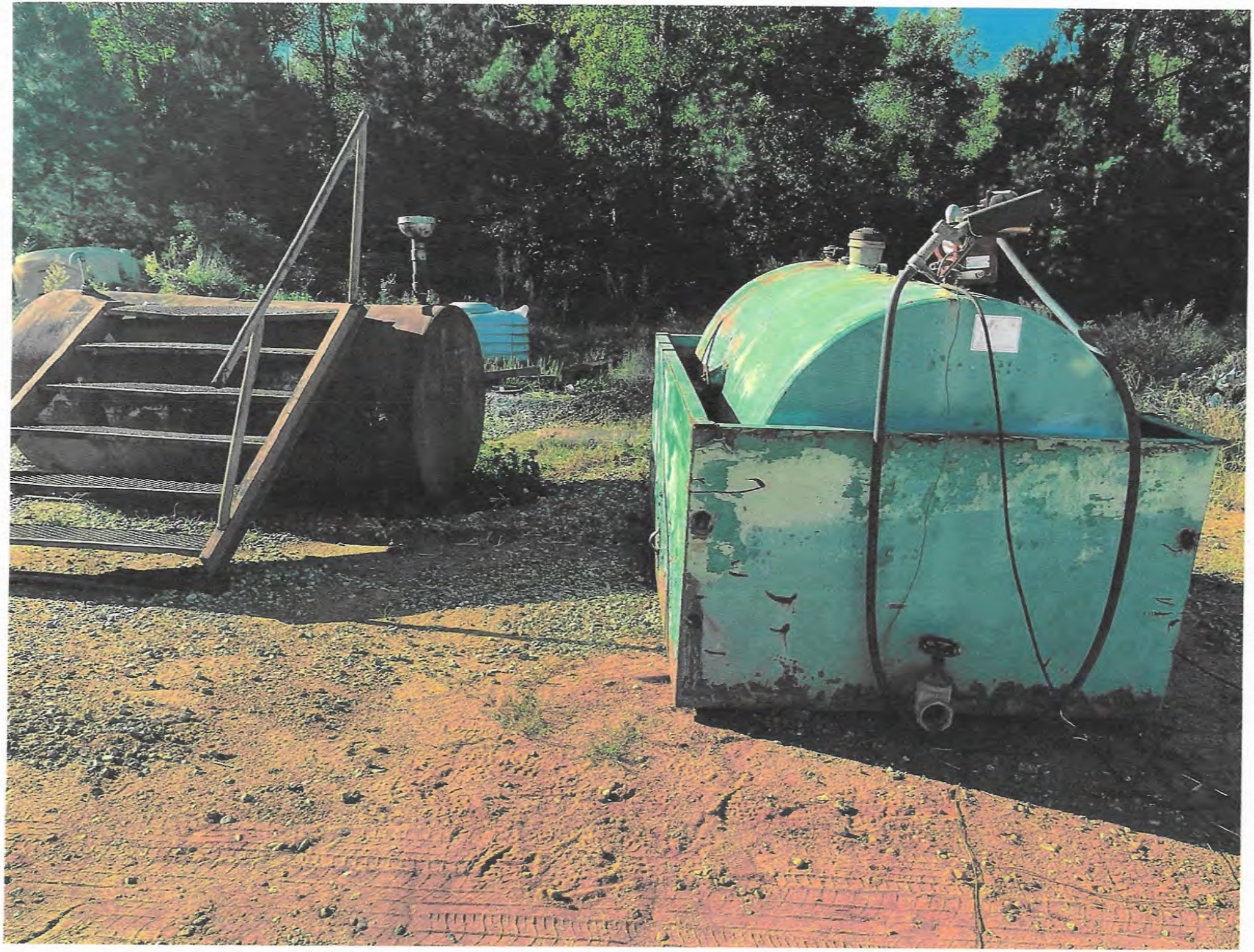
1) Best management practices for inlet protection have not been maintained or installed per site plans. Install inlet protection properly.
2) Bare areas that have not been worked within 13 days must be stabilized.
3) There is a large pile of construction debris on the bare ground that has been on site for over two months. Dispose of this debris properly.
4) The tanks on site are not all labeled. They also do not have proper secondary containment. The tank volumes also add up to exceed the limit of petroleum on site without an engineered SPCC plan. Either remove the tanks or remediate these issues in keeping with requirements set forth in our ESC Ordinance and 40 CFR 112.
5) Ensure your QCI/QCP is performing monthly and 0.75" rain event inspections. If your QCI/QCP is inspecting during the prescribed periods, please be sure to follow their reccommendations.

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



City of Phenix City Engineering Department

INSPECTION REPORT

DATE: 12/01/2022 TIME: afternoon PROJECT/SUBDIVISION: [redacted]
WEATHER: Sunny and cool CITY PERSONNEL: _____

QUALIFYING RAIN EVENT: NO ADEM PERMIT: NO RAIN GAUGE: NO

DAILY REPORT OF ACTIVITIES

The site has changed considerably since we issued a verbal warning and then an NOV. The site has been seeded and strawed in all areas that have not been worked in 13 days or more. All refueling tanks have been removed. The trash pile that was present during the 9/23/22 and 10/03/22 inspections has been removed. However, a new trash pile is present in another location. I believe they will be moving this pile at some point soon. Wattle inlet protection has been placed at all curb inlets. They also rolled several ECBs out onto bare areas leading to drop inlets.

INSPECTION BY: Jonathan Foster

Post Construction Inspection

(Examples)

City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE: Misty Forest Ph 3 DATE: 8/15/2022 TIME 9:52 AM

MAINTAINED BY: [redacted]

PHOTOGRAHS TAKEN: Y ☑ N ☐ NUMBER OF PONDS ONSITE: 1

ITEMS INSPECTED

VEGETATIVE COVER: Pond is overgrown with vegetation, no structures were identified

SEDIMENT: No erosion observed due to overgrown vegetation

DEBRIS: No visible debris other than overgrown vegetation

FENCING: Fencing around pond

INLETS: Outfall was not identified due to overgrown vegetation

EMERGENCY SPILLWAY: Spillway was not located

COMMENTS/CORRECTIVE ACTION NEEDED: Vegetation shall be cut back to observe all required elements of pond.

INSPECTION BY: Jonathan Foster

PHENIX CITY Alabama
DEPARTMENT OF ENGINEERING / PUBLIC WORKS
601 12th Street | Phenix City, AL 36867 | Ph: 334-448-2760 | Fx: 334-291-4848 | phenixcityal.us

VIA CERTIFIED MAIL

August 15, 2022

[redacted]

Re: Misty Forest Subdivision, Phase 3 Detention Pond, Misty Forest Dr. Phenix City, Alabama, Parcel [redacted]

Dear Mrs. [redacted]:

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

The following issues need to be addressed:

1) All grass and vegetation must be kept at a minimum height of no more than 6 inches.
2) All tree saplings, brush, and debris must be removed from the basin.

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. A follow-up inspection will be conducted at the end of the 15 day period. 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,

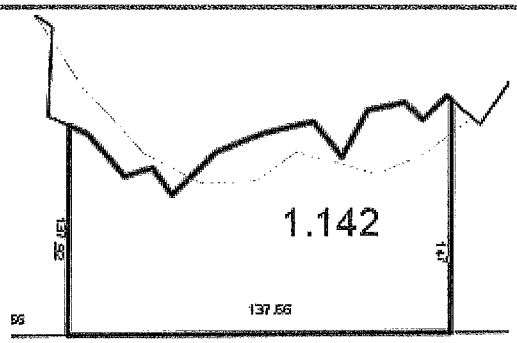
Angel Moore, P.E.
City Engineer

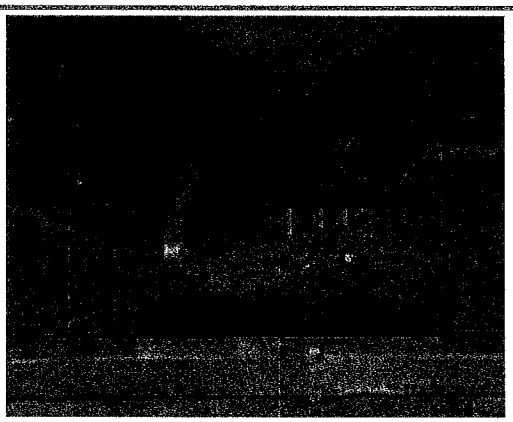
Cc: File

Russell County Alabama - 2022

Property Record Card Print Close

Parcel Info





Parcel Number	ACCOUNT#	Exempt	AMENTITES
[redacted]	--		ROAD TOPO SEWER WATER GAS

Subdivision	MISTY FOREST PH III
Neighborhood	00009MF2

District	City	S-T-R	Acreage	Lot Size	Deed B/P
2	PHENIX CITY	08-16N-30E	0	147 X 138	[redacted]

Legal	S8 T16 R30 LOT DP OF MISTY FOREST SUB PH III PB(20/232)

Owner

Name	[redacted]		
Mailing Addr	[redacted]	Physical Addr	MISTY FOREST DR

Values

Land Total:	**$5,250.00**
Building Total:	**$0.00**
Appraised Value:	**$5,250.00**
Annual Taxes:	**$62.54**

PHENIX CITY Alabama

DEPARTMENT OF ENGINEERING / PUBLIC WORKS

601 12th Street | Phenix City, AL 36867 | Ph: 334-448-2760 | Fx: 334-291-4848 | phenixcityal.us

VIA CERTIFIED MAIL

November 4, 2022

[redacted]

Re: Freeway Self Storage Detention Pond

Dear Mr. [redacted]:

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: Freeway Self Storage DATE: 10/28/2022 TIME 3:47pm

MAINTAINED BY: [redacted] LLC

PHOTOGRAHS TAKEN: Y ☑ N ☐ NUMBER OF PONDS ONSITE: 1

ITEMS INSPECTED

VEGETATIVE COVER: Grass was well-maintained on slopes and pond bottom.

SEDIMENT: No Sediment buildup

DEBRIS: No debris

FENCING: N/A

INLETS: Inlets were in good shape with no blockages. One inlet did have some minor erosion around it that might need to be addressed later.

EMERGENCY SPILLWAY: N/A

COMMENTS/CORRECTIVE ACTION NEEDED: No corrective actions needed at this time.

INSPECTION BY: Jonathan Foster

OID_	Name_of_Development	Development_Type	Latitude	Longitude	Type_of_BMP
1	3 Downing Drive	Commercial	32.402842	-85.048096	Detention Pond
2	28th Avenue Duplexes (Not Started)	Residential	32.46446	-85.03333	Detention Pond
3	Alatrade Pond 1	Commercial	32.397203	-85.047692	Detention Pond
4	Alatrade Pond 2	Commercial	32.395364	-85.048363	Detention Pond
5	Asbury Park, Section 7	Residential	32.433551	-85.016043	Detention Pond
6	Ashford Place	Residential	32.495037	-85.03378	Detention Pond
7	Autumn Brooke	Residential	32.495884	-85.055671	Detention Pond
8	Bethany Baptist	Commercial	32.518232	-85.034684	Detention Pond
9	Blake Apartments	Residential	32.480397	-85.020735	Detention Pond
10	Brandywine	Residential	32.429926	-85.046919	Detention Pond
11	Carpenter's Way	Residential	32.454844	-85.028272	Detention Pond
12	Central High	Commercial	32.483246	-85.03904	Detention Pond
13	Creekside Early Learning Center	Commercial	32.497854	-85.033357	Detention Pond
14	Del Taco	Commercial	32.470618	-85.028218	Detention Pond
15	Dollar General 431	Commercial	32.428417	-85.031074	Detention Pond
16	Dollar General Seale Rd	Commercial	32.447188	-85.009323	Detention Pond
17	Dollar General Summerville Road	Commercial	32.494921	-85.014243	Detention Pond
18	DSC Alabama	Industrial	32.378721	-85.056841	Detention Pond
19	Dudley Property on Riverchase (Not Started)	Commercial	32.5197238	-85.0280829	Detention Pond
20	Eagle Pointe	Residential	32.500737	-85.027978	Detention Pond
21	East Alabama Mental Health	Commercial	32.431031	-85.029535	Detention Pond
22	Epworth Methodist Church	Commercial	32.502718	-85.051663	Detention Pond
23	Evangeline Heights	Residential	32.464991	-85.031069	Detention Pond
24	Fairhaven Ph. 2 Fairfield	Residential	32.440775	-85.034273	Detention Pond
25	Fairhaven Ph. 2 Harding	Residential	32.44151	-85.034511	Detention Pond
26	Fairhavem Ph. 2 Brentview	Residential	32.4428	-85.035199	Detention Pond
27	Family Dollar	Commercial	32.474108	-85.017346	Detention Pond
28	Freeway Storage	Commercial	32.443317	-85.020615	Detention Pond
29	Gatewood Ph. 3	Residential	32.488867	-85.051246	Detention Pond
30	Gatewood Ph. 4	Residential	32.488732	-85.048697	Detention Pond
31	Gil's Auto (Underground Detention)	Commercial	32.461456	-85.021951	Underground Detention System
32	Golden Acres	Residential	32.493966	-85.038787	Detention Pond
33	Goodwill	Commercial	32.494974	-85.042587	Detention Pond
34	Greystone Pond 1	Residential	32.519744	-85.024603	Detention Pond
35	Greystone Pond 2	Residential	32.519593	-85.021039	Detention Pond
36	Greystone Pond 3	Residential	32.518611	-85.018822	Detention Pond
37	Greystone Pond 4	Residential	32.518007	-85.017906	Detention Pond
38	Greater Mt Zion Parking Lot Pond 1	Commercial	32.444322	-85.009683	Detention Pond
39	Greater Mt Zion Parking Lot Pond 2	Commercial	32.444293	-85.009024	Detention Pond
40	Greenleaf Apartments	Residential	32.493812	-85.022509	Detention Pond
41	Hallmark Apartments	Residential	32.465543	-85.030899	Detention Pond
42	Hickory Heights	Residential	32.494796	-85.055534	Detention Pond
43	Hidden Hills Apartments	Residential	32.484709	-85.022164	Detention Pond
44	Hillcrest Estates Pond 1	Residential	32.446915	-84.999486	Detention Pond
45	Hillcrest Estates Pond 2	Residential	32.447548	-85.002675	Detention Pond
46	Hillcrest Estates Pond 3	Residential	32.4469	-85.002091	Detention Pond
47	Hillcrest Estates Pond 4	Residential	32.446399	-84.998553	Detention Pond
48	Home Depot	Commercial	32.506698	-85.049568	Detention Pond
49	Iljin	Commercial	32.391791	-85.047721	Detention Pond
50	Jack's 431	Commercial	32.425647	-85.035337	Detention Pond
51	Jackson Family Medicine	Commercial	32.496545	-85.018535	Detention Pond
52	KS Charter Tours (Motormax)	Commercial	32.462916	-85.023684	Detention Pond
53	Keystone	Residential	32.450271	-85.021872	Detention Pond
54	Ladonia Commercial	Commercial	32.47185	-85.085421	Detention Pond
55	Ladonia Terrace	Residential	32.473027	-85.093135	Detention Pond
56	Lakewood Baptist	Commercial	32.499185	-85.035097	Detention Pond
57	Lakewood Elementary	Commercial	32.509961	-85.031571	Detention Pond
58	Liberty Hill Apartments North	Residential	32.478298	-85.021461	Detention Pond
59	Liberty Hill Apartments South	Residential	32.476044	-85.022521	Detention Pond
60	Lonesome Pines	Residential	32.424129	-85.016012	Detention Pond
61	Marshall Heights	Residential	32.46272	-85.011427	Detention Pond
62	McClendon Place	Residential	32.458046	-85.023172	Detention Pond
63	McDonald's/Verizon on 280 (might not be detention, but it is post-construction BMP)	Commercial	32.497204	-85.044791	Detention Pond
64	Meadowood North	Residential	32.478073	-85.079191	Detention Pond
65	Meadowood South	Residential	32.476907	-85.078921	Detention Pond
66	Misty Forest Phase 2 East	Residential	32.388141	-85.040594	Detention Pond
67	Misty Forest Phase 2 West	Residential	32.38869	-85.044441	Detention Pond
68	Misty Forest Phase 3	Residential	32.391702	-85.042255	Detention Pond
69	Misty Forest Phase 4A	Residential	32.392567	-85.042856	Detention Pond
70	North Woods	Residential	32.496435	-85.025989	Detention Pond
71	Orchard Hills	Residential	32.453575	-85.031875	Detention Pond
72	O'Reilly	Commercial	32.474217	-85.017904	Detention Pond
73	Phenix City Board of Education	Commercial	32.438538	-84.999654	Detention Pond
74	Phenix City Old Landfill	Industrial	32.376473	-85.064646	Detention Pond
75	Phenix City New Landfill	Industrial	32.376389	-85.062997	Detention Pond
76	Phenix City Self Storage (JHCC)	Commercial	32.494957	-85.043569	Detention Pond
77	Phenix City Self Storage (Storage Facility)	Commercial	32.495656	-85.045061	Detention Pond
78	Phenix Corners Northwest corner	Commercial	32.482062	-85.03314	Detention Pond
79	Phenix Corners on Hwy 280	Commercial	32.480263	-85.031131	Detention Pond
80	Phenix Crossing	Commercial	32.521264	-85.027103	Detention Pond
81	Phenix Lumber West Pond (Basin 1)	Industrial	32.491903	-85.042515	Detention Pond
82	Phenix Lumber Central Pond (Basin 2)	Industrial	32.491624	-85.039746	Detention Pond
83	Phenix Lumber East Pond (Basin 3)	Industrial	32.491592	-85.039109	Detention Pond
84	Phillips	Residential	32.456649	-85.032219	Detention Pond
85	Railroad Center	Commercial	32.498602	-85.042174	Detention Pond
86	Regional Rehab	Commercial	32.497818	-85.045717	Detention Pond
87	Regions Bank 280	Commercial	32.495991	-85.039989	Detention Pond
88	Richards Place	Residential	32.515657	-85.024221	Detention Pond
89	Richmond Park East	Residential	32.443312	-85.02462	Detention Pond
90	Richmond Park	Residential	32.443767	-85.027762	Detention Pond
91	Richmond Park Cul-de-sac (West)	Residential	32.443651	-85.030021	Detention Pond
92	Ridgebrook West	Residential	32.371655	-85.050096	Detention Pond
93	Ridgebrook East	Residential	32.373004	-85.046399	Detention Pond
94	Ridgecrest Elementary	Commercial	32.43309	-85.019829	Detention Pond
95	Ridgewood Cove II	Residential	32.486853	-85.048588	Detention Pond
96	Riverchase Center	Commercial	32.517322	-85.016465	Detention Pond
97	Riverchase Commercial NE	Commercial	32.50765	-85.002665	Detention Pond
98	Riverchase Commercial SW	Commercial	32.502502	-85.002897	Detention Pond
99	Russell County DHR (underground)	Commercial	32.47857	-85.027193	Underground Detention System
100	Russell County Sherriff's Office Covid Supply Storage Building	Commercial	32.437918	-85.019111	Detention Pond

101	SA Recycling	Industrial	32.429141	-84.982285	Detention Pond
102	Sandfort Hills	Residential	32.454402	-85.022125	Detention Pond
103	Shadow Wood	Residential	32.529117	-85.066579	Detention Pond
104	Sherwood Elementary	Commercial	32.493977	-85.003033	Detention Pond
105	Silver Leaf North	Residential	32.513002	-85.037122	Detention Pond
106	Silver Leaf Southwest	Residential	32.5095	-85.038762	Detention Pond
107	Silver Leaf West	Residential	32.510838	-85.038767	Detention Pond
108	Silver Terrace	Residential	32.499451	-85.040914	Detention Pond
109	Silver Thorn 1 (""storm detention area"" that is really the stream running through the development)	Residential	32.515563	-85.040607	Stormwater Area
110	Silver Thorn 2 (""storm detention area"" that is really the stream running through the development)	Residential	32.514354	-85.040254	Stormwater Area
111	Silver Thorn 3 (""storm detention area"" that is really the stream running through the development)	Residential	32.514908	-85.038806	Stormwater Area
112	South Railroad Street Apartments	Residential	32.499168	-85.040372	Detention Pond
113	Southeast Truck & Trailer	Commercial	32.442448	-85.002688	Detention Pond
114	Southside Storage (Copper Storage)	Commercial	32.42831	-85.030449	Detention Pond
115	Stadium Healthcare Center	Commercial	32.496545	-85.018535	Detention Pond
116	Stadium Place	Residential	32.485629	-85.020718	Detention Pond
117	Sumbry Hill Northwest	Residential	32.463741	-85.030165	Detention Pond
118	Sumbry Hill South	Residential	32.462221	-85.028829	Stormwater Area
119	Summer Vineyard	Residential	32.463359	-85.077294	Detention Pond
120	Summerbrook	Residential	32.502808	-85.026518	Detention Pond
121	Tate Furniture	Commercial	32.460236	-85.022381	Detention Pond
122	Taylor Way	Residential	32.444001	-85.034784	Detention Pond
123	The Lakes	Residential	32.471558	-85.081292	Detention Pond
124	Vectorply	Industrial	32.494156	-85.033507	Detention Pond
125	Villas St. Andrews (Send letter to HOA)	Residential	32.524271	-85.032998	Detention Pond
126	Wade Store All West	Commercial	32.50902	-85.050226	Detention Pond
127	Wade Store All East	Commercial	32.508814	-85.047761	Detention Pond
128	Walgreens 280	Commercial	32.474	-85.029257	Detention Pond
129	Walmart 280 West	Commercial	32.500836	-85.04529	Detention Pond
130	Walmart 280 East	Commercial	32.500719	-85.0416	Detention Pond
131	Walmart Hwy 80	Commercial	32.471661	-85.083873	Detention Pond
132	Wendy's 280	Commercial	32.496085	-85.041125	Detention Pond
133	Westminster	Residential	32.477306	-85.04409	Detention Pond
134	Westview Elementary	Commercial	32.467757	-85.023894	Detention Pond
135	Windmark	Residential	32.458956	-85.023863	Detention Pond
136	Willow Trace West (B)	Residential	32.44047	-85.028874	Detention Pond
137	Willow Trace East (A)	Residential	32.440543	-85.028293	Detention Pond

Municipal Facility BMP Inspection Checklist

(Example)

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

*- Denotes that facility has an oil/water separator that drains to sanitary sewer.

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: Fire Station 1 **Location:** 1910 Crawford Road

Department: Fire **Facility Contact:** Kerry Bragg

Inspection Date: 06/27/2022 **Time:** 1030 **Inspector:** Kerry Bragg

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

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: Fire Station 3 **Location:** 510 South Seale Road

Department: Fire **Facility Contact:** Kerry Bragg

Inspection Date: 06/30/2022 **Time:** 1045 **Inspector:** Kerry Bragg

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

MUNICIPAL FACILITY BMP INSPECTION CHECKLIST

Facility Name: Fire Station 4 **Location:** 1300 Airport Road

Department: Fire **Facility Contact:** Kerry Bragg

Inspection Date: 06/30/2022 **Time:** 1600 **Inspector:** Kerry Bragg

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

Municipal Training

Limbs + Debris

ANNUAL MS4 EMPLOYEE TRAINING

Alabama

	Name	Department	Date and time when training was viewed
1	Stanly Chamley	PUBLIC WORKS L+D	3/30/23
2	Breez Morgan	"	3/30/23
3	Roger Austin	"	3/30/23
4	John Grooms	"	"
5	[illegible]	"	"
6	[illegible]	"	"
7	michael moore	"	"
8	DAMIAN Dent	"	"
9	Jermaine Fluellen	"	"
10	Patrick Reynolds	"	"
11	Morry Willis Jones	"	"
12	Tommy L Moore	"	"
13	Tammy L Mille	"	"
14	Wallace Walton	"	"
15	Charles Moneday Jr.	"	"
16	Charles Parker Jr.	"	"
17	Jason Arnold Jason Arnold	L+D Public Works	3/30/23
18	Anthony Rutledge	"	"
19	Shane Elonde [illegible]	L+D	3/30/23
20	Ashane Griffins	"	"
21	Paul Chastain	"	3/30/23

Streets + Drainage

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
22	Antwan Boatner Antwan Boa	Street + Drain	8:10 3/29/23
23	JIM Jones	STREET DRAINAGE	8:10 3/29-23
24	Vashone Williams Vashe Willi	Streets & Drainage	8:10 3/29-23
25	MATTHEW WILSON	P.W.	8:12 3/29/23
26	Jim Gibson	P.W.	3/29/23
27	Steven Winfield	P.W.	3/29/23
28	Michael Mattox	Public Works Vehicle Maint.	3/29/23
29	Bryant, Jimmy G. Jr.	Public Works Vehicle Maint.	3/28/23
30	Byrd, Joshua Joshua Byrd	streets & drain	28 MAR 23
31	RICKY DEAUN LEONARD Ricky Leonard	Streets Drainage	3/28/23
32	Jay Willoughby	Street & Drainage	3-29-2023
33	Tim Jackson	Streets & Drainage	3-29-23
34	Eric Matthews	Streets + Drain	03/29/2023
35	Devin Cleveland	Streets + Drainage	03/29/2023
36	Christopher Horton	Streets + Drainage	03/29/2023 8:17
37	Kenner Battle	Street & Drainage	03/29/2023 8:18
38	RICK		03-29-23 8:19
39	Rick Lowery		3/29/23 8:21
40	Quinton Johnson	Quinton Johnson	3/29/23 8:22
41	CLIFTON BATSON	STREETS + DRAINAGE	3-29-23 - 8:20am

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
42	Samuel James	PUBIC WORKS - CEMETERY DIVISION	3/28/2023 8:15am
43	Jerome Randolph	PUBIC WORKS - CEMETERY DIVISION	3/28/2023 8:15 am
44	Adam Tilley	PUBIC WORKS - CEMETERY DIVISION	3/28/2023 8-15 am
45	Brandon Miles	PUBIC WORKS - CEMETERY DIVISION	3/29/2023 8:15am

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

Name	Department	Date and time when training was viewed
46 Jimmy Cook	Engineering	1:15 pm 3/27/23
47 Sebastian Gonzalez-Perez	Engineering	9:35am 3/31/23
48 Jonathon Foster	Engineering	9:35AM 3/31/23
49 John Spraggins	Engineering	9:46 AM 2023.03.31
~~50~~ Andrew Patterson	Engineering	9:58 AM 3/31/23
~~51~~ Chris Casey	Eng.	3:30 pm 3/31/23

Included on a different page for numbering purposes
-JF

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
50	[illegible]	Admin	3/27/23 @ 230pm
51	Hakari Draco	Admin	3/29/23 @ 1500hrs.
52	[illegible]	Adm	3/27/2023 12:30pm

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
53	Adam Avery	Police	03/27/23 04:24PM
54	Michael Bettencourt	Police	03/28/23 07:18AM
55	Tramella Brown	Police	3/27/23 07:10PM
56	John Buchanan	Police	03/28/23 11:02PM
57	Marc Cutt	Police	03/27/23 04:23PM
58	Brian Hatcher	Police	03/27/23 04:19PM
59	Cayla Heeger	Police	03/28/23 07:49AM
60	Robert Isabel	Police	03/29/23 07:05AM
61	Patrick Keith	Police	03/28/23 07:10PM
62	Darrell Lasiter	Police	03/29/23 09:44AM
63	Todd Ledbetter	Police	03/27/23 04:27PM
64	Angela Leslie	Police	03/31/23 08:45AM
65	Jose Silva	Police	03/28/23 04:00PM
66	Raymond Smith	Police	03/28/23 08:58AM
67	George Staudinger	Police	03/28/23 10:33AM
68	Joey Weierick	Police	03/27/23 04:17PM
69	John Young	Police	03/29/23 06:51AM
70	Steven Zdanowicz	Police	03/29/23 04:19PM

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
71	Kristin H. Kennedy	Phenix City Fire Rescue	3/27/2023 1400 hours
72	Bobby Brooks	Phenix City Fire Rescue	3/28/2023 1700 hours
73	Jimmy Brooks	Phenix City Fire Rescue	3/28/2023 1540 hours
74	Jalen Burgess	Phenix City Fire Rescue	3/28/2023 1600 hours
75	Toxie Xarroll	Phenix City Fire Rescue	3/28/2023 1600 hours
76	Jeffery Carter	Phenix City Fire Rescue	3/28/2023 1600 hours
77	Daniel Dixon	Phenix City Fire Rescue	3/28/2023 1540 hours
78	Trevor Eiland	Phenix City Fire Rescue	3/28/2023 1600 hours
79	Jeffrey Frazer	Phenix City Fire Rescue	3/28/2023 1600 hours
80	Mackenzie George	Phenix City Fire Rescue	3/28/2023 1600 hours
81	Brenn Holloway	Phenix City Fire Rescue	3/28/2023 1540 hours
82	Kasey Kiker	Phenix City Fire Rescue	3/28/2023 1600 hours
83	Dustin Kilpatrick	Phenix City Fire Rescue	3/28/2023 1540 hours
84	Casey Pinder	Phenix City Fire Rescue	3/28/2023 1600 hours
85	Robert B. Smith	Phenix City Fire Rescue	3/28/2023 1600 hours

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
86	Kristin H. Kennedy	Phenix City Fire Rescue	3/27/2023 1400 hours
87	Bennie R. Dubberly	Phenix City Fire Rescue	3/27/2023 1400 hours
88	Christopher Wright	Phenix City Fire Rescue	3/27/2023 1400 hours
89	Jason Jackson	Phenix City Fire Rescue	3/27/2023 1400 hours
90	Kerry Bragg	Phenix City Fire Rescue	3/27/2023 1400 hours

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed	
91	James Walker	FIRE	27 Mar 23	1600
92	Jeff McMannans	Fire	03 | 27 | 23	1600
93	David Clark	Fire	3/27/23	1600
94	Dennis Edgar	Fire	03/27/23	1600
95	Cory Hymes	Fire	3/27/23	1600
96	Denis Williams	Fire	3|30|23	1300
97	Ben Cochran	Fire	3/30/23	1300
98	Melvin R Arnett	Fire	3/30/23	1300
99	Cyrus Melvin	Fire	3/30/23	1300
100	Brandon Corbett	Fire	3|30|2023	1330
101	Doug Green	Fire	3/30/2023	1330
102	Davis Wright	Fire	3/30/2023	1330
103	Austin Brown	Fire	3/20/2023	1330

2023

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

104

Name	Department	Date and time when training was viewed
Charles D. Woody II C. Woody	Utilities - ADMIN	March 31, 2023 at 8:55am EST

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
105	Jared Barker	Utilities - WWTP	3/31/23 @ 9:30am
106	John Jackson	Utilities - WWTP	3/31/23 @ 9:30am
107	Cody Gray	Utilities - WWTP	3/31/23 @ 9:30am

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
108	Mike Smisek	Utilities (WFP)	3/28/2023 10:15 am
109	Michael Ballsteadt	Utilities (WFP)	3/28/2023 11:00 am
110	David Bensema	Utilities (WFP)	28 MAR 23 1117
111	Robert Hudson	Utilities (WFP)	29 MAR 23 1:06 PM

Alabama

ANNUAL MS4 EMPLOYEE TRAINING

	Name	Department	Date and time when training was viewed
112	Denorris Williams	Utilities	3/31/23 9:50 am
113	Terry Holland	Utilities	3/31/23 10:10 am
114	Marcus Jones	Utilities	3/31/23 2:25 pm
115	Andrew Patterson	Engineering	9:58am 3/31/23
116	Chris Casey	Engineering	3:30pm 3/31/23

City of Phenix City, AL

Engineering Department

Illicit Discharge Detection and Elimination and Post-Construction Inspection Summary Field Guide for Employees

Initial Compilation: August 10, 2022

Revised: March 22, 2023

Section 1
IDDE Inspections

City of Phenix City Engineering Department

A Summary Guide to IDDE Inspections

Information in this IDDE summary guide was taken from "Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments" by the Center for Watershed Protection and Robert Pitt. This is not an exhaustive list, but, rather, a reference point for Illicit Discharges inspections to fulfill requirements of the City's MS4 Phase II permit. Outfall inspections are performed annually, with a minimum inspection of 15% of all outfalls per year and 100% of all outfalls inspected per permit cycle (every 5 years).

Outfalls to Record	Outfalls to Skip
• Both large and small diameter pipes that appear to be part of the storm drain infrastructure • Outfalls that appear to be piped headwater streams • Field connections to culverts • Submerged or partially submerged outfalls • Outfalls that are blocked with debris or sediment deposits • Pipes that appear to be outfalls from storm water treatment practices • Small diameter ductile iron pipes • Pipes that appear to only drain roof downspouts but that are subsurface, preventing definitive confirmation	• Drop inlets from roads in culverts (unless evidence of illegal dumping, dumpster leaks, etc.) • Cross-drainage culverts in transportation right-of-way (i.e., can see daylight at other end) • Weep holes • Flexible HDPE pipes that are known to serve as slope drains • Pipes that are clearly connected to roof downspouts via above-ground connections

Table 40: Equipment Needed for Sample Collection
• A cooler (to be kept in the vehicle) • Ice or "blue ice" (to be kept in the vehicle) • Permanent marker (for labeling the samples) • Labeling tape or pre-printed labels • Several dozen one-liter polyethylene plastic sample bottles • A "dipper," a measuring cup at the end of a long pole, to collect samples from outfalls that are hard to reach • Bacteria analysis sample bottles (if applicable), typically pre-cleaned 120mL sample bottles, to ensure against contamination

A **storm drain** can either be an enclosed or an open channel. There are two types this department is concerned with:

1. Major storm drains—enclosed storm drain pipes with a diameter of 36 inches or greater or open channels that drain more than 50 acres. For industrial land uses, major drains are defined as enclosed storm drain pipes 12 inches or greater in diameter and open channels that drain more than two acres.
2. Minor storm drains—smaller than the thresholds of major drains

Consider **discharge structures** from detention ponds, retention ponds, underground detention basins, etc. as outfalls for these inspections. If there is an emergency spillway for these structures, only consider the primary outlet structure as an outfall.

DO NOT consider foundation drains, weep holes, culverts, roof drains, pipes in which you can see daylight at the other end, driveway pipes, and drop inlets from roads as outfalls for these inspections. If there is evidence of illegal dumping, sanitary sewer leaks, etc. from or in these drains, investigate further to locate the source.

Table 30: Resources Needed to Conduct the ORI		
Need Area	**Minimum Needed**	**Optional but Helpful**
Mapping	• Roads • Streams	• Known problem areas • Major land uses • Outfalls • Specific industries • Storm drain network • SIC-coded buildings • Septics
Field Equipment	• 5 one-liter sample bottles • Backpack • Camera (preferably digital) • Cell phones or hand-held radios • Clip boards and pencils • Field sheets • First aid kit • Flash light or head lamp • GPS unit • Spray paint (or other marker) • Surgical gloves • Tape measure • Temperature probe • Waders (snake proof where necessary) • Watch with a second hand	• Portable Spectrophotometer and reagents (can be shared among crews) • Insect repellant • Machete/clippers • Sanitary wipes or biodegradable soap • Wide-mouth container to measure flow • Test strips or probes (e.g., pH and ammonia)
Staff	• Basic training on field methodology • Minimum two staff per crew	• Ability to track discharges up the drainage system • Knowledge of drainage area, to identify probable sources. • Knowledge of basic chemistry and biology

Table 31: Preferred Climate/Weather Considerations for Conducting the ORI		
Preferred Condition	**Reason**	**Notes/Regional Factors**
Low groundwater (e.g., very few flowing outfalls)	High groundwater can confound results	In cold regions, do not conduct the ORI in the early spring, when the ground is saturated from snowmelt.
No runoff-producing rainfall within 48 hours	Reduces the confounding influence of storm water	The specific time frame may vary depending on the drainage system.
Dry Season	Allows for more days of field work	Applies in regions of the country with a "wet/ dry seasonal pattern." This pattern is most pronounced in states bordering or slightly interior to the Gulf of Mexico or the Pacific Ocean.
Leaf Off	Dense vegetation makes finding outfalls difficult	Dense vegetation is most problematic in the southeastern United States. This criterion is helpful but not required.

Parameter	Discharge Types It Can Detect				
	Sewage	Washwater	Tap Water	Industrial or Commercial Liquid Wastes	Laboratory/Analytical Challenges
Ammonia	●	◉	○	◉	Can change into other nitrogen forms as the flow travels to the outfall
Boron	◉	◉	○	N/A	
Chlorine	○	○	○	◉	High chlorine demand in natural waters limits utility to flows with very high chlorine concentrations
Color	◉	◉	○	◉	
Conductivity	◉	◉	○	◉	Ineffective in saline waters
Detergents – Surfactants	●	●	○	◉	Reagent is a hazardous waste
E. coli Enterococci Total Coliform	◉	○	○	○	24-hour wait for results Need to modify standard monitoring protocols to measure high bacteria concentrations
Fluoride*	○	○	●	◉	Reagent is a hazardous waste Exception for communities that do not fluoridate their tap water
Hardness	◉	◉	◉	◉	
pH	○	◉	○	◉	
Potassium	◉	○	○	●	May need to use two separate analytical techniques, depending on the concentration
Turbidity	◉	◉	○	◉	

● Can almost always (>80% of samples) distinguish this discharge from clean flow types (e.g., tap water or natural water). For tap water, can distinguish from natural water.
◉ Can sometimes (>50% of samples) distinguish this discharge from clean flow types depending on regional characteristics, or can be helpful in combination with another parameter
○ Poor indicator. Cannot reliably detect illicit discharges, or cannot detect tap water
N/A: Data are not available to assess the utility of this parameter for this purpose.
Data sources: Pitt (this study)
*Fluoride is a poor indicator when used as a single parameter, but when combined with additional parameters (such as detergents, ammonia and potassium), it can almost always distinguish between sewage and washwater.

EXAMPLES of outfalls and items to record

 Ductile iron round pipe	 4-6" HDPE; Check if roof leader connection (legal)	 Field connection to inside of culvert; Always mark and record.
 Small diameter (<2") HDPE; Often a sump pump (legal), or may be used to discharge laundry water (illicit).	 Elliptical RCP; Measure both horizontal and vertical diameters.	 Double RCP round pipes; Mark as separate outfalls unless known to connect immediately up-pipe
 Culvert (can see to other side); Don't mark as an outfall	 Open channel "chute" from commercial parking lot; Very unlikely illicit discharge. Mark, but do not return to sample (unless there is an obvious problem).	 Small diameter PVC pipe; Mark, and look up-pipe to find the origin.
 CMP outfall; Crews should also note upstream sewer crossing.	 Box shaped outfall	 CMP round pipe with two weep holes at bridge crossing. (Don't mark weep holes)

Color: Brown; Severity: 2
Turbidity Severity: 2

Color: Blue-green; Severity: 3
Turbidity Severity: 2

Highly Turbid Discharge
Color: Brown; Severity: 3
Turbidity Severity: 3

Sewage Discharge
Color: 3
Turbidity: 3

Paint
Color: White; Severity: 3
Turbidity: 3

Industrial Discharge
Color: Green; Severity: 3
Turbidity Severity: 3

Blood
Color: Red; Severity: 3
Turbidity Severity: None

Failing Septic System:
Turbidity Severity: 3

Turbidity in Downstream Plume
Turbidity Severity: 2
(also confirm with sample bottle)

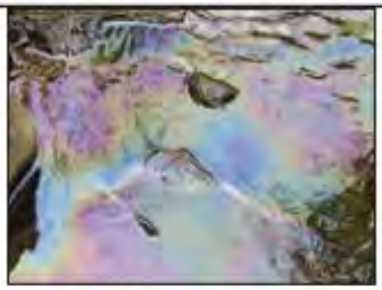
High Turbidity in Pool
Turbidity Severity: 2
(Confirm with sample bottle)

Iron Floc
Color: Reddish Orange; Severity: 3
(Often associated with a natural source)

Slight Turbidity
Turbidity: 1
(Difficult to interpret this observation; May be natural or an illicit discharge)

Construction Site Discharge
Turbidity Severity: 3

Discharge of Rinse from Floor Sanding
(Found during wet weather)
Turbidity Severity: 3

SUDS		
		
Natural Foam Note: Suds only associated with high flows at the "drop off" Do not record.	Low Severity Suds Rating: 1 Note: Suds do not appear to travel; very thin foam layer	High severity suds Rating: 3 Sewage
OIL SHEENS		
		
Low Severity Oil Sheen Rating: 1	Moderate Severity Oil Sheen Rating: 2	High Severity Oil Film Rating: 3

Bacterial growth at this outfall indicates nutrient enrichment and a likely sewage source.

This bright red bacterial growth often indicates high manganese and iron concentrations. Surprisingly, it is not typically associated with illicit discharges.

Sporalitis filamentous bacteria, also known as "sewage fungus" can be used to track down sanitary sewer leaks.

Algal mats on lakes indicate eutrophication. Several sources can cause this problem. Investigate potential illicit sources.

Illicit discharges or excessive nutrient application can lead to extreme algal growth on stream beds.

The drainage to this outfall most likely has a high nutrient concentration. The cause may be an illicit discharge, but may be excessive use of lawn chemicals.

This brownish algae indicates an elevated nutrient level.

Reddish staining on the rocks below this outfall indicate high iron concentrations.

Toilet paper directly below the storm drain outlet.

Watershed Protection??

Trash is not an indicator of illicit discharges, but should be noted.

Staining at the base of the outfall may indicate a persistent, intermittent discharge.

Excessive vegetation may indicate enriched flows associated with sewage.

Brownish stain of unclear origin. May be from degradation of the brick infrastructure.

Cracked rock below the outfall may indicate an intermittent discharge.

Poor pool quality. Consider sampling from the pool to determine origin.

Section 2
Post-Construction BMP Inspections

City of Phenix City Engineering Department

A Summary Guide to Post-Construction BMP Inspections

Information in this Post-Construction BMP summary guide was taken from the NPDES General Permit Number ALR040000, Part III: Storm Water Pollution Prevention and Management Program. This is not an exhaustive list, but, rather, a reference point for Post-Construction BMP inspections to fulfill requirements of the City's MS4 Phase II permit. These inspections are performed annually.

Requirements for documentation of Post-Construction BMPs:

1. Facility Type—Is the BMP a detention pond, retention pond, oil/water separator, etc.?
2. Inspection date
3. Name and Signature of Inspector
4. Site location
5. Owner information
6. Description of the BMP condition including quality of: vegetation and soils, inlet and outlet channels/structures, embankments, slopes, safety benches, spillways, weirs, other control structures, sediment and debris accumulation in storage and forebay areas, accumulation around inlet and outlet structures.
7. Photos of all critical BMP components
8. Corrections that are needed
9. Maintenance agreements for long-term BMP operation and maintenance.

Phenix City-specific documentation and information:

1. If the pond is owned by the State of Alabama, does the City Public Works department have the labor and/or equipment to readily maintain the pond? If not, speak with the City Engineer to assess options to have a third party perform O&M.
2. If the pond is subdivided amongst several lots/owners with no easements, speak with the City Engineer about how to notify property owners of their duty to properly O&M the pond. If no easements are present, the City is not legally bound to maintain the pond, but, per the MS4 permit, the City is legally bound to require maintenance of the pond.
3. Send a letter on City letterhead to owners of the pond's condition. If the pond is not properly operating or maintained, outline in a letter what corrections are needed and file a copy of the signed letter.

Training Certificates

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

Jimmy Cook

City of Phenix City

for satisfactory completion of

Online Refresher

Training

QCI No. T6191

Expires 7/25/2023

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

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

Jonathan Foster

City of Phenix City

for satisfactory completion of

Online Refresher

Training

QCI No. T7190

Expires 12/15/2023

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

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

Sebastian Gonzalez Perez

City of Phenix City Engineering

for satisfactory completion of

Online Initial

Training

QCI No. T7777

Expires 2/9/2024

This certificate confers six (6.0) professional development hours (PDHs) to students who require credits for licenses or certifications. Such PDHs are subject to the qualifying requirements of the licensing or certifying organization.

ADEM
Alabama Department of Environmental Management

QCI Training Program

thompson
ENGINEERING

Certificate of Completion

is hereby granted to:

Paul Chastain

City of Phenix City

for satisfactory completion of

Online Refresher

Training

QCI No. T0716

Expires 3/30/2024

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

IECA
International Erosion Control Association
Protecting Soil and Water Resources

Certificate of PDH Credit

May it be known by all who read this that on 05/19/2022

Jonathan Foster

has successfully completed

2022 Auburn University Field Day - Field Day Attendee Registration

and has earned 6.00 PDH (Professional Development Hour)

Executive Director

IECA President

IECA
International Erosion Control Association
Protecting Soil and Water Resources

Certificate of PDH Credit

May it be known by all who read this that on 05/17/2022

Jonathan Foster

has successfully completed

2022 Auburn University Installer Training - Conference Registration

and has earned 10.00 PDH (Professional Development Hour)

Executive Director

IECA President

IECA
International Erosion Control Association
Protecting Soil and Water Resources

Certificate of PDH Credit

May it be known by all who read this that on 05/19/2022

Andrew Clayton Hendrick Patterson

has successfully completed

2022 Auburn University Field Day - Field Day Attendee Registration

and has earned 6.00 PDH (Professional Development Hour)

Executive Director

IECA President

IECA
International Erosion Control Association
Protecting Soil and Water Resources

Certificate of PDH Credit

May it be known by all who read this that on 05/17/2022

Andrew Clayton Hendrick Patterson

has successfully completed

2022 Auburn University Installer Training - Conference Registration

and has earned 10.00 PDH (Professional Development Hour)

Executive Director

IECA President

HalfMoon Education Inc.
WWW.HALFMOONSEMINARS ORG

Certificate of Completion

Using U.S. EPA's Storm Water Management Model (SWMM)

Christopher Casey

October 31, 2022

This event was a live interactive webinar presentation in which participation was monitored and subject matter retention was measured by an examination at the conclusion of the presentation.

This webinar offers up to 6.5 PDHs/continuing education hours to professional engineers in all states, 6.5 HSW continuing education hours to architects in all states, and 6.5 HSW contact/continuing education hours to landscape architects in most states that allow this learning method. Refer to specific state continuing education rules to determine eligibility.
This program is approved by the American Institute of Architects Continuing Education System for 6.5 HSW Learning Units (Sponsor No. J885, Course No. W103122EPASWM, Session No. 1) and by the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Events approved by the AIA/CES qualify for Florida and New Jersey architects. HalfMoon Education Inc. is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), and North Carolina (Sponsor No. S-0130). HalfMoon Education Inc. is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2) and §79-1.5(i)(2)).
The Association of State Floodplain Managers has approved this course for 6.5 ASFPM CECs.
Instructor: Brad Flack, CPESC, CESSWI, QSM, QCIS, QPSWPPP

Seminar Sponsor:
HalfMoon Education Inc.
P.O. Box 278
Altoona, WI 54720
(715) 835-5900
www.halfmoonseminars.org

Frank Chapman
Continuing Education Coordinator
fchapman@halfmoonseminars.org

HalfMoon Education Inc.
WWW.HALFMOONSEMINARS ORG

Certificate of Completion

Using U.S. EPA's Storm Water Management Model (SWMM)

Jonathan Foster

October 31, 2022

This event was a live interactive webinar presentation in which participation was monitored and subject matter retention was measured by an examination at the conclusion of the presentation.

This webinar offers up to 6.5 PDHs/continuing education hours to professional engineers in all states, 6.5 HSW continuing education hours to architects in all states, and 6.5 HSW contact/continuing education hours to landscape architects in most states that allow this learning method. Refer to specific state continuing education rules to determine eligibility.
This program is approved by the American Institute of Architects Continuing Education System for 6.5 HSW Learning Units (Sponsor No. J885, Course No. W103122EPASWM, Session No. 1) and by the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Events approved by the AIA/CES qualify for Florida and New Jersey architects. HalfMoon Education Inc. is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), and North Carolina (Sponsor No. S-0130). HalfMoon Education Inc. is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2) and §79-1.5(i)(2)).
The Association of State Floodplain Managers has approved this course for 6.5 ASFPM CECs.
Instructor: Brad Flack, CPESC, CESSWI, QSM, QCIS, QPSWPPP

Seminar Sponsor:
HalfMoon Education Inc.
P.O. Box 278
Altoona, WI 54720
(715) 835-5900
www.halfmoonseminars.org

Frank Chapman
Continuing Education Coordinator
fchapman@halfmoonseminars.org

HalfMoon Education Inc.
WWW.HALFMOONSEMINARS ORG

Certificate of Completion

Using U.S. EPA's Storm Water Management Model (SWMM)

Shondra Hogan

October 31, 2022

This event was a live interactive webinar presentation in which participation was monitored and subject matter retention was measured by an examination at the conclusion of the presentation.

This webinar offers up to 6.5 PDHs/continuing education hours to professional engineers in all states, 6.5 HSW continuing education hours to architects in all states, and 6.5 HSW contact/continuing education hours to landscape architects in most states that allow this learning method. Refer to specific state continuing education rules to determine eligibility.
This program is approved by the American Institute of Architects Continuing Education System for 6.5 HSW Learning Units (Sponsor No. J885, Course No. W103122EPASWM, Session No. 1) and by the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Events approved by the AIA/CES qualify for Florida and New Jersey architects. HalfMoon Education Inc. is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), and North Carolina (Sponsor No. S-0130). HalfMoon Education Inc. is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2) and §79-1.5(i)(2)).
The Association of State Floodplain Managers has approved this course for 6.5 ASFPM CECs.
Instructor: Brad Flack, CPESC, CESSWI, QSM, QCIS, QPSWPPP

Seminar Sponsor:
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P.O. Box 278
Altoona, WI 54720
(715) 835-5900
www.halfmoonseminars.org

Frank Chapman
Continuing Education Coordinator
fchapman@halfmoonseminars.org

Water Monitoring

ALABAMA WATER WATCH

WATER CHEMISTRY MONITORING DATA FORM

Group Name: City of Phenix City Engineering Department ☐ online

Collector(s): Jonathan Foster

Email: jfoster@phenixcityal.us Phone N°: 334-448-2768

Sample Date: 9/28/22 **Sample Time:** 3:02 PM EST **AWW Site Code:** 03020001

Watershed: Middle Chattahoochee-Walter F. George Waterbody: Mill Creek County & State: Russell, AL

Sampling site location: Monitoring Point 3 - Old Auburn Rd

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

Waterbody condition: ☑ Adequate Depth ☐ Inadequate Depth ☐ Dry ☐ No Access

Tidally influenced rivers: ☐ Rising Tide ☐ Falling Tide ☐ Uncertain ☑ Not Applicable

Variable	Value	Comments
Temperature	Air: 14.5 Water: 10 °C	Measure air temp before water temperature. Read with bulb submerged if possible. Don't touch bulb.
pH	7.0 Standard international units	Record to nearest 0.5 unit.
Dissolved Oxygen (DO)	Rep 1: 7.6 ppm Rep 2: 7.4 ppm	**Make sure two readings are within 0.6 ppm.**
Specific Gravity / Salinity	S. G. _____ Salinity: _____ ppt	If salinity is present do not test for hardness.
% Oxygen Saturation	_____ Avg DO _____ % DO Sat	Estimate from chart found in the AWW manual.
Total Alkalinity	7 # drops x 5 = 35 mg/L	Add drops until no more color change. Record number of drops that produced final change.
Total Hardness	4 # drops x 10 = 40 mg/L	
Turbidity	2 # 0.5 mL x 5 (**50mL**) = 10 JTU _____ # 0.5 mL x 10 (**25mL**) _____ JTU	Enter zero (0) mL and 2 JTU if one addition of reagent surpassed the turbidity of the sample. **Use bottom line ONLY if 25 mL sample volume was used.**
Secchi Depth	_____ meters	Do not record depth if disk hits bottom while visible.

Comments: Note evidence of rainfall, runoff within previous 24 hours, unusual smell, unusual color, cows or other animals in creek, etc.	AWW Office Use

Other Chemistry Tests		YSI Meter data, Nitrates, Phosphate, etc.

I hereby declare that at the time of this water sampling my AWW Water Chemistry Certification was current and that I confirmed the freshness of each reagent used for these tests. All data entered above the **Comments** section were obtained using AWW techniques.

☐ **Check for electronic signature.** Jonathan Foster

Monitor signature

Alabama Water Watch 2021

Alabama Water Watch
961 S. Donahue Dr.
Auburn, AL 36849-5124

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

Auburn Environmental Consulting & Testing

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.
1207- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 29 JUN 22/1025
SAMPLE # 152037/152038/152039/152040
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	4.3 mg/l	SM5210B	AB	06-30-22	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	06-30-22	1309
TKN	<1.00 mg/l	A4500-NH3-D	ALT	07-08-22	1203
NITRATE+NITRITE	0.524 mg/l	300.0	TAL	06-30-22	2112
TOTAL PHOSPHORUS	0.0323 mg/l	SM4500-P-E	MS	07-10-22	1435

SAMPLE DATE/TIME: 29 JUN 22/1100
SAMPLE # 152041/152042/152043/152044
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	3.4 mg/l	SM5210B	AB	06-30-22	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	06-30-22	1406
TKN	<1.00 mg/l	A4500-NH3-D	ALT	07-08-22	1200
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	06-30-22	2209
TOTAL PHOSPHORUS	0.0359 mg/l	SM4500-P-E	MS	07-10-22	1435

SAMPLE DATE/TIME: 29 JUN 22/0959
SAMPLE # 152045/152046/152047/152048
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.6 mg/l	SM5210B	AB	06-30-22	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	06-30-22	1241
TKN	<1.00 mg/l	A4500-NH3-D	ALT	07-08-22	1200
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	06-30-22	2044
TOTAL PHOSPHORUS	0.0287 mg/l	SM4500-P-E	MS	07-10-22	1435

SAMPLE DATE/TIME: 29 JUN 22/1040
SAMPLE # 152049/152050/152051/152052
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.7 mg/l	SM5210B	AB	06-30-22	1855
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	06-30-22	1338
TKN	<1.00 mg/l	A4500-NH3-D	ALT	07-08-22	1200
NITRATE+NITRITE	0.505 mg/l	300.0	TAL	06-30-22	2141
TOTAL PHOSPHORUS	0.0359 mg/l	SM4500-P-E	MS	07-10-22	1435

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 JUNCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:

THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY: L

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – **1 – HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
152037	CBOD: PRESERVED 4°C	6/29/22	1025	J. Foster
152038	ORTHOPHOSPHATE: PRESERVED 4°C	6/29/22	1025	J. Foster
152039	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6/29/22	1025	J. Foster
152040	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/29/22	1025	J. Foster

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 6/29/22			
RECEIVED BY: X Chi	DATE/TIME: 29 Jun 22 1:10 PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X Chi (LABORATORY)	DATE/TIME: 29 Jun 22 3:25 PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C

SAMPLES STORED IN REFRIGERATOR ID#: 503 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : pH 4 pH 7 pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – **2 – HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
152041	CBOD: PRESERVED 4°C	6/29/22	1100	J. Foster
152042	ORTHOPHOSPHATE: PRESERVED 4°C	6/29/22	1100	J. Foster
152043	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6/29/22	1100	J. Foster
152044	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/29/22	1100	J. Foster

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 6/29/22			
RECEIVED BY: X	DATE/TIME: 29 Jun 22 1:10PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X (LABORATORY)	DATE/TIME: 29 Jun 22 3:35PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4 °C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – **3 – MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
152045	CBOD: PRESERVED 4°C	6/29/22	1002	J. Foster
152046	ORTHOPHOSPHATE: PRESERVED 4°C	6/29/22	959	J. Foster
152047	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6/29/22	959	J. Foster
152048	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/29/22	959	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X [signature]	DATE/TIME: 6/29/22		
RECEIVED BY: X [signature]	DATE/TIME: 29 Jun 22 1:10 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X [signature] (LABORATORY)	DATE/TIME: 29 Jun 22 3:37 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
152049	CBOD: PRESERVED 4°C	6/29/22	1070	J. Foster
152050	ORTHOPHOSPHATE: PRESERVED 4°C	6/29/22	1070	J. Foster
152051	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	6/29/22	1070	J. Foster
152052	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	6/29/22	1070	J. Foster

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 6/29/22			
RECEIVED BY: X	DATE/TIME: 29 Jun 22 1:10PM			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X (LABORATORY)	DATE/TIME: 29 JUN 22 3:40PM			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 573 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

Auburn Environmental Consulting & Testing

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.
1210- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 28 SEP 22/1010
SAMPLE # 153046/153047/153048/153049
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.5 mg/l	SM5210B	AB	09-29-22	1735
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	09-30-22	1019
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	10-18-22	1030
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	10-10-22	2321
TOTAL PHOSPHORUS	0.0381 mg/l	SM4500-P-E	MS	10-11-22	1906

SAMPLE DATE/TIME: 28 SEP 22/1040
SAMPLE # 153050/153051/153052/153053
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.4 mg/l	SM5210B	AB	09-29-22	1735
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	09-30-22	0950
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	10-18-22	1030
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	10-10-22	2347
TOTAL PHOSPHORUS	0.0204 mg/l	SM4500-P-E	MS	10-11-22	1906

SAMPLE DATE/TIME: 28 SEP 22/0950
SAMPLE # 153054/153055/153056/153057
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.0 mg/l	SM5210B	AB	09-29-22	1735
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	09-30-22	0921
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	10-18-22	1030
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	10-11-22	1214
TOTAL PHOSPHORUS	<0.0200 mg/l	SM4500-P-E	MS	10-11-22	1906

SAMPLE DATE/TIME: 28 SEP 22/1021
SAMPLE # 153058/153059/153060/153061
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.0 mg/l	SM5210B	AB	09-29-22	1735
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	09-30-22	1048
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	10-18-22	1030
NITRATE+NITRITE	<0.500 mg/l	300.0	TAL	10-11-22	1333
TOTAL PHOSPHORUS	0.0239 mg/l	SM4500-P-E	MS	10-11-22	1906

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 JUNCH 1983.
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:

THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY:

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 1 – **HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
153046	CBOD: PRESERVED 4°C	9/28/22	1010 EST	J. Foster
153047	ORTHOPHOSPHATE: PRESERVED 4°C	9/28/22	1010	↓
153048	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9/28/22	1010	↓
153049	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/28/22	1010	↓

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X		DATE/TIME: 9/28/22		
RECEIVED BY: X		DATE/TIME: 28 SEPT22		X
TRANSFERRED BY: X		DATE/TIME: 12:55PM		
RECEIVED BY: X (LABORATORY)		DATE/TIME: 28SEPT22 1:50PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 392

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

AECT

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 2 – **HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
153050	CBOD: PRESERVED 4°C	9/28/22	1040 EST	J. Foster
153051	ORTHOPHOSPHATE: PRESERVED 4°C	9/28/22	1040	"
153052	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9/28/22	1040	"
153053	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/28/22	1040	"

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 9/28/22			
RECEIVED BY: X Chi Ren	DATE/TIME: 28 SEP 22			X
TRANSFERRED BY: X	DATE/TIME: 12:55 PM			
RECEIVED BY: X Chi Ren (LABORATORY)	DATE/TIME: 28 SEP 22	1:55 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: S81 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 3 – **MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
153054	CBOD: PRESERVED 4°C	9/28/22	950 EST	J. Foster
153055	ORTHOPHOSPHATE: PRESERVED 4°C	9/28/22	950	↓
153056	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9/28/22	950	↓
153057	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/28/22	950	↓

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Justin Foster	DATE/TIME: 9/28/22		
RECEIVED BY: X Chris Ray	DATE/TIME: 28SEPT22 12:55PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chris Ray (LABORATORY)	DATE/TIME: 28SEPT22 2:00PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
153058	CBOD: PRESERVED 4°C	9/28/22	1021 EST	J. Foster
153059	ORTHOPHOSPHATE: PRESERVED 4°C	9/28/22	1021	"
153060	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	9/28/22	1021	"
153061	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	9/28/22	1021	

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 9/28/22		
RECEIVED BY: X Chris Ben	DATE/TIME: 28 Sept 22 12:55 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chris Ben (LABORATORY)	DATE/TIME: 28 Sept 22 2:05 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4 °C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 392

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : ___pH 4_____pH 7_____pH 10

Auburn Environmental Consulting & Testing

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.
1212- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 20 DEC 22/0845 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 154025/154026/154027/154028 — LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	12-21-22	1930
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	12-21-22	1453
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	12-28-22	1145
NITRATE+NITRITE	<0.300 mg/l	300.0	TAL	12-27-22	2019
TOTAL PHOSPHORUS	0.0244 mg/l	SM4500-P-E	MS	01-03-23	1720

SAMPLE DATE/TIME: 20 DEC 22/0920 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 154029/154030/154031/154032 — LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	12-21-22	1930
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	12-21-22	1550
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	01-04-23	1030
NITRATE+NITRITE	0.300 mg/l	300.0	TAL	12-27-22	2046
TOTAL PHOSPHORUS	0.0464 mg/l	SM4500-P-E	MS	01-03-23	1720

SAMPLE DATE/TIME: 20 DEC 22/0825 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 154033/154034/154035/154036 — LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	12-21-22	1930
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	12-21-22	1424
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	01-04-23	1030
NITRATE+NITRITE	0.338 mg/l	300.0	TAL	12-27-22	2205
TOTAL PHOSPHORUS	0.0573 mg/l	SM4500-P-E	MS	01-03-23	1720

SAMPLE DATE/TIME: 20 DEC 22/0900 — SAMPLE TYPE: CREEK SAMPLE
SAMPLE # 154037/154038/154039/154040 — LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	<1.0 mg/l	SM5210B	AB	12-21-22	1930
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	12-21-22	1522
TKN	<1.00 mg/l	A4500-NH3-D	HDJ	01-04-23	1030
NITRATE+NITRITE	<0.300 mg/l	300.0	TAL	12-27-22	2232
TOTAL PHOSPHORUS	0.0427 mg/l	SM4500-P-E	MS	01-03-23	1720

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 JUNCH 1983
RESULTS CALCULATED ON A WEIGHT BASIS

REPORT APPROVED BY:

THOMAS BRANTLY, JR
LABORATORY MANAGER

REVIEWED BY:

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 1 – **HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
154025	CBOD: PRESERVED 4°C	12/20/22	0845	J. Foster
154026	ORTHOPHOSPHATE: PRESERVED 4°C	12/20/22	0845	J. Foster
154027	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12/20/22	0845	J. Foster
154028	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/22	0845	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 12/20/22		
RECEIVED BY: X Chi Ren	DATE/TIME: 20 Dec 22 2:05 PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Ren (LABORATORY)	DATE/TIME: 20 Dec 22 3:00 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4 °C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : pH 4 pH 7 pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 2 – **HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
154029	CBOD: PRESERVED 4°C	12/20/22	0920	J. Foster
154030	ORTHOPHOSPHATE: PRESERVED 4°C	12/20/22	0920	J. Foster
154031	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12/20/22	0920	J. Foster
154032	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/22	0920	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 12/20/22		
RECEIVED BY: X Chi Ren	DATE/TIME: 20 Dec 22 2:05PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Ren (LABORATORY)	DATE/TIME: 20 Dec 22 3:05PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: _____

SAMPLES STORED IN REFRIGERATOR ID#: _____ THERMOMETER ID#: _____

SHIPPED BY: _____ TRACKING #: _____

pH Calibration : ___pH 4_____pH 7_____pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 3 – **MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
154033	CBOD: PRESERVED 4°C	12/20/22	0825	J. Foster
154034	ORTHOPHOSPHATE: PRESERVED 4°C	12/20/22	0825	J. Foster
154035	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12/20/22	0825	J. Foster
154036	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/22	0825	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 12/20/22		
RECEIVED BY: X Chi Ra	DATE/TIME: 20Dec22 3:06PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Ra (LABORATORY)	DATE/TIME: 20 Dec22 3:10 PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4 °C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : pH 4 pH 7 pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
154037	CBOD: PRESERVED 4°C	12/20/22	0900	J. Foster
154038	ORTHOPHOSPHATE: PRESERVED 4°C	12/20/22	0900	J. Foster
154039	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	12/20/22	0900	J. Foster
154040	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	12/20/22	0900	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 12/20/22		
RECEIVED BY: X Chi Ren	DATE/TIME: 20Dec22 2:06PM		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X Chi Ren (LABORATORY)	DATE/TIME: 20Dec22 3:15PM		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 372

SHIPPED BY: AECT TRACKING #: N/A

pH Calibration : pH 4 pH 7 pH 10

Auburn Environmental Consulting & Testing

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

REPORT OF ANALYSIS

PHENIX CITY ENGINEERING DEPT.
1204- 7TH AVENUE
PHENIX CITY, AL 36868

SAMPLE DATE/TIME: 30 MAR 23/0905
SAMPLE # 155005/155006/155007/155008
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 1 – HOLLAND CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.8 mg/l	SM5210B	AB	03-31-23	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-31-23	1356
TKN	<1.00 mg/l	A4500-NH3-D	BJT	04-12-23	1045
NITRATE+NITRITE	<0.300 mg/l	300.0	TAL	04-13-23	0346
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	RJE	04-11-23	1741

SAMPLE DATE/TIME: 30 MAR 23/0945
SAMPLE # 155009/155010/155011/155012
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 2 - HOLLAND "MILL" CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	2.4 mg/l	SM5210B	AB	03-31-23	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-31-23	1600
TKN	<1.00 mg/l	A4500-NH3-D	BJT	04-12-23	1045
NITRATE+NITRITE	<0.300 mg/l	300.0	TAL	04-13-23	0417
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	RJE	04-11-23	1751

SAMPLE DATE/TIME: 30 MAR 23/0845
SAMPLE # 155013/155014/155015/155016
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 3 – MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.5 mg/l	SM5210B	AB	03-31-23	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-31-23	1630
TKN	<1.00 mg/l	A4500-NH3-D	BJT	04-12-23	1045
NITRATE+NITRITE	<0.300 mg/l	300.0	TAL	04-13-23	0448
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	RJE	04-11-23	1435

SAMPLE DATE/TIME: 30 MAR 23/0920
SAMPLE # 155017/155018/155019/155020
SAMPLE TYPE: CREEK SAMPLE
LOCATION: 4 - MILL CREEK

PARAMETER	ANALYSIS	METHOD	ANALYST	DATE	TIME
CBOD	1.9 mg/l	SM5210B	AB	03-31-23	1950
ORTHOPHOSPHATE	<0.100 mg/l	E300.0	TAL	03-31-23	1701
TKN	<1.00 mg/l	A4500-NH3-D	BJT	04-12-23	1045
NITRATE+NITRITE	<0.300 mg/l	300.0	TAL	04-13-23	1719
TOTAL PHOSPHORUS	<0.500 mg/l	SM4500-P-E	RJE	04-11-23	1456

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:

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 1 – **HOLLAND CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
155005	CBOD: PRESERVED 4°C	3/30/23	9:05 EST	J. Foster
155006	ORTHOPHOSPHATE: PRESERVED 4°C	3/30/23	9:05 EST	J. Foster
155007	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3/30/23	9:05 EST	J. Foster
155008	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/30/23	9:05 EST	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 3/30/23 1340		X
RECEIVED BY: X	DATE/TIME: 30 March 23 1340		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X (LABORATORY)	DATE/TIME: 30 March 23 1437		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4°C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: NA

pH Calibration : pH 4 pH 7 pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 2 – **HOLLAND "MILL" CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
155009	CBOD: PRESERVED 4°C	3/30/23	9:45 EST	J. Foster
155010	ORTHOPHOSPHATE: PRESERVED 4°C	3/30/23	9:45 EST	J. Foster
155011	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3/30/23	9:45 EST	J. Foster
155012	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/30/23	9:45 EST	J. Foster

SAMPLE CHAIN OF CUSTODY:

			COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 3/30/23 1340			X
RECEIVED BY: X	DATE/TIME: 30 Mar 23 1340			X
TRANSFERRED BY: X	DATE/TIME:			
RECEIVED BY: X (LABORATORY)	DATE/TIME: 30 Mar 23 1430			X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: <4°C

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: NA

pH Calibration : pH 4 pH 7 pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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 – 3 – **MILL CREEK**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
155013	CBOD: PRESERVED 4°C	3/30/23	8:45 EST	J. Foster
155014	ORTHOPHOSPHATE: PRESERVED 4°C	3/30/23	8:45 EST	J. Foster
155015	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3/30/23	8:45 EST	J. Foster
155016	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/30/23	8:45 EST	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 3/30/23 1340		X
RECEIVED BY: X	DATE/TIME: 30 Mar 23 1340		✓
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X (LABORATORY)	DATE/TIME: 30 Mar 23 1430		✓

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4

SAMPLES STORED IN REFRIGERATOR ID#: S81 THERMOMETER ID#: 372

SHIPPED BY: ACT TRACKING #: NA

pH Calibration : pH 4 pH 7 pH 10

SAMPLE/COLLECTION TRANSMITTAL FORM

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**

MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
155017	CBOD: PRESERVED 4°C	3/30/23	9:20 EST	J. Foster
155018	ORTHOPHOSPHATE: PRESERVED 4°C	3/30/23	9:20 EST	J. Foster
155019	NITRATE+NITRITE, TKN: PRESERVED 4°C, H_2SO_4	3/30/23	9:20 EST	J. Foster
155020	TOTAL PHOSPHORUS: PRESERVED H_2SO_4	3/30/23	9:20 EST	J. Foster

SAMPLE CHAIN OF CUSTODY:

		COURIER YES	COURIER NO
TRANSFERRED BY: X Jonathan Foster	DATE/TIME: 3/30/23 1340		X
RECEIVED BY: X	DATE/TIME: 30 Mar 23 1340		X
TRANSFERRED BY: X	DATE/TIME:		
RECEIVED BY: X (LABORATORY)	DATE/TIME: 30 Mar 23 1430		X

PLEASE DO NOT WRITE BELOW THIS LINE

TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: 4

SAMPLES STORED IN REFRIGERATOR ID#: 581 THERMOMETER ID#: 372

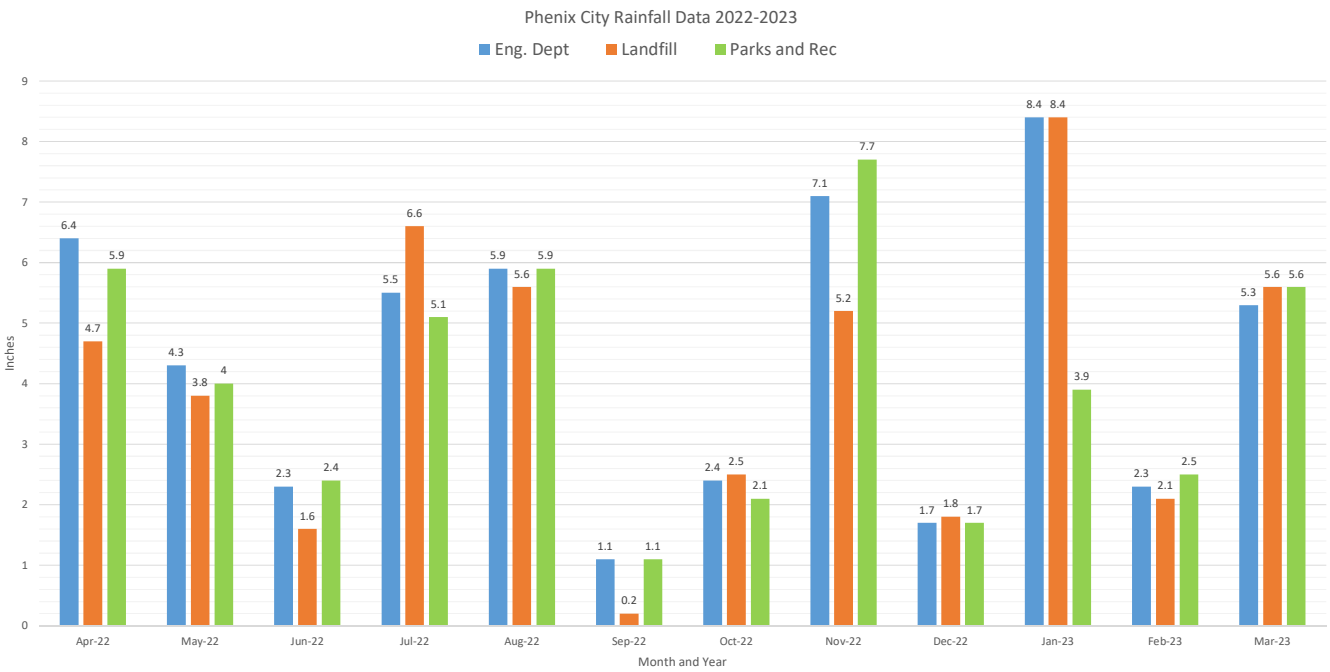
SHIPPED BY: ACT TRACKING #: N/A

pH Calibration : pH 4 pH 7 pH 10

Rainfall Data

Date	Yard Rainfall	Landfill Rainfall	Parks and Rec Rainfall	Comments
	Inches	Inches	Inches	
4/6/2022	2.6	2.2	2.5	
4/7/2022	1.9	1.2	1.6	
4/18/2022	1.9	1.3	1.8	Weekend Total
Total	6.4	4.7	5.9	
5/2/2022	0.5	0	0.1	Weekend Total
5/6/2022	0.4	0.2	0.2	
5/23/2022	1.85	2	1.95	Weekend Total
5/26/2022	1.3	1.4	1.3	
5/27/2022	0.2	0.2	0.4	
Total	4.25	3.8	3.95	
6/8/2022	0.6	0.4	0.55	
6/15/2022	0.9	0	0.9	
6/16/2022	0.3	1	0.8	
6/29/2022	0.5	0.2	0.1	
Total	2.3	1.6	2.35	
7/7/2022	0	0	1.7	
7/11/2022	2.6	0	1.2	Weekend Total
7/13/2022	0.5	0	0	
7/14/2022	1.2	3.3	0.9	
7/18/2022	0	0.7	0	Weekend Total
7/19/2022	0.1	0.4	0	
7/20/2022	0.3	0.3	0.65	
7/21/2022	0	0.1	0	
7/22/2022	0.6	0.75	0.55	
7/25/2022	0.2	1	0.1	
Total	5.5	6.55	5.1	
8/2/2022	0.6	0.6	0.9	
8/3/2022	1.35	1	0.85	
8/8/2022	0.65	0.65	2.15	
8/9/2022	0.5	0.1	0.2	
8/11/2022	0.05	0.1	0	
8/12/2022	0.1	0.05	0.25	
8/16/2022	0.15	0.4	0	
8/18/2022	0.1	0.05	0	
8/19/2022	0.2	0	0	
8/22/2022	0	0.5	0	Weekend total
8/23/2022	0.05	0.05	0.1	
8/25/2022	1	1.2	1	
8/26/2022	0.3	0.3	0.3	
8/29/2022	0.8	0.6	0.1	Weekend total
Total	5.85	5.6	5.85	
9/6/2022	1.1	0.2	1.1	Weekend Total
Total	1.1	0.2	1.1	
10/13/2022	1.75	1.9	1.63	Community raingauge was used for parks and rec data
10/26/2022	0.4	0.3	0.2	
10/31/2022	0.2	0.25	0.31	Weekend total
Total	2.35	2.45	2.14	
11/14/2022	1.4	0.1	1.62	Community raingauge was used for parks and rec data
11/15/2022	0.25	0.1	0.25	
11/28/2022	3.75	3.3	4.06	Rain from 11/25-11/27
11/30/2022	1.65	1.7	1.78	
Total	7.05	5.2	7.71	
12/12/2022	0.2	0.3	0.24	Community raingauge was used for parks and rec data
12/14/2022	0.1	0.1	0.1	
12/15/2022	0.9	0.9	0.97	

12/20/2022	0.05	0.1	0.04	
12/21/2022	0.4	0.4	0.39	
Total	1.65	1.8	1.74	
1/4/2023	3.5	3.3	2.32	Community raingauge was used for parks and rec data
1/9/2023	0.1	0.2	0.11	
1/13/2023	0.75	0.9	0.51	
1/18/2023	0.1	0.1	0.06	
1/19/2023	0.05	0.1	0.06	
1/23/2023	1.35	1.25	1.49	
1/25/2023	1	1	0.89	
1/26/2023	0.1	0.05	0.02	
1/30/2023	1.3	1.35	1.36	
1/31/2023	0.1	0.1	0.03	
Total	8.35	8.35	3.87	
2/1/2023	0.2	0.1	0.13	Community raingauge was used for parks and rec data
2/2/2023	0.1	0	N/A	**Not posted on CoCoRaHS**
2/3/2023	0.85	0.7	1.00	
2/9/2023	0.05	0	0.03	
2/10/2023	0.1	0.2	1.17	
2/13/2023	0.9	1	1	Weekend total
2/17/2023	0.1	0.1	0.17	
2/21/2023	0	0	0	
2/26/2023	0	0	0.03	
Total	2.3	2.1	2.5	
3/3/2023	0.3	0.2	0.23	Community raingauge was used for parks and rec data
3/6/2023	0	0	0	
3/7/2023	0.1	0	0.0	
3/13/2023	1.4	2.1	1.64	Weekend total
3/20/2023	0.6	0.6	0.79	Weekend total
3/27/2023	1.8	1.85	1.33	Weekend total
3/28/2023	1.1	0.8	1.58	
Total	5.3	5.55	5.57	
				Totals Averaged
Totals	52.4	47.9	47.78	**49.36**



Notes:
Community Rain gauge was used for Parks and Rec data between the months of October 2022 and March 2023 due to Parks and Rec rain gauge being damaged.

Appendix III – Forms and Applications

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

Contact Information:

Property Owner	Site Address
Owner Address	Contractor
City / State	Contact Number

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

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

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

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

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

Signature _____ Date _____

Rev. 11/15

City of Phenix City Engineering and Public Works Department

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

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

Name of Applicant _____

Mailing Address _____

City_____ State _____ Zip Code _____

Telephone Number _____

Office Use Only
Permit Number
Date Received
Date Approved

Address of Proposed Turnout _____

Description of Work _____

_____

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

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

Signed _____ _____
Applicant Date

Recommended for Approval:

_____ _____ _____
Authorized Representative Title Date

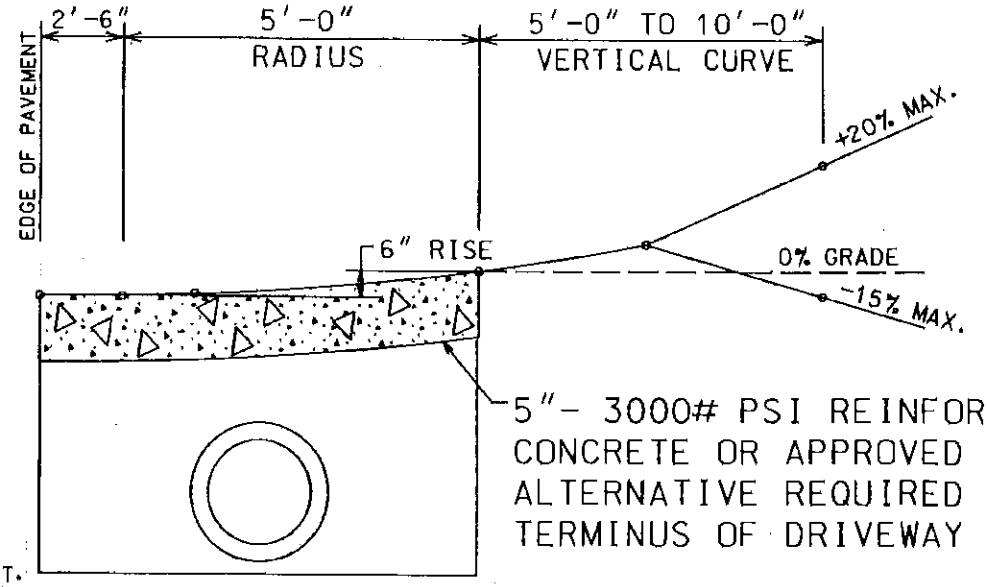
APPROVED:

_____
City Engineer

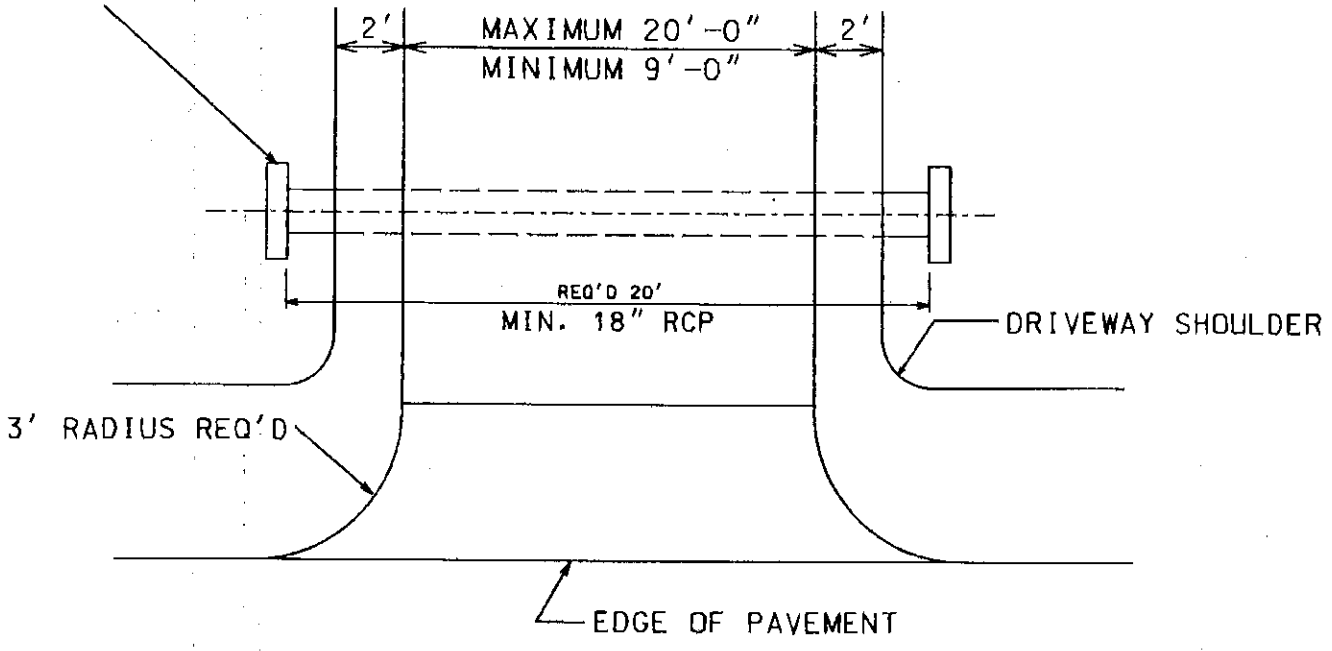
_____
Date

℄ PROFILE SECTION

(NOT TO SCALE)



SLOPED PAVED HEADWALL OR FLARE END SECTIONS REQ'D AT EACH END ALTERNATIVE TYPES OF HEADWALLS MUST HAVE APPROVAL OF ENGR. DEPT. SEE ALABAMA DEPT. OF TRANSPORTATION SPC. DWG. FE-619 (FLARED END SECT) SPC. DWG. HW 614-B (SLOPED PAVED)



RESIDENTIAL DRIVEWAY WITH RADIUS DITCH SECTION

NOTES:

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

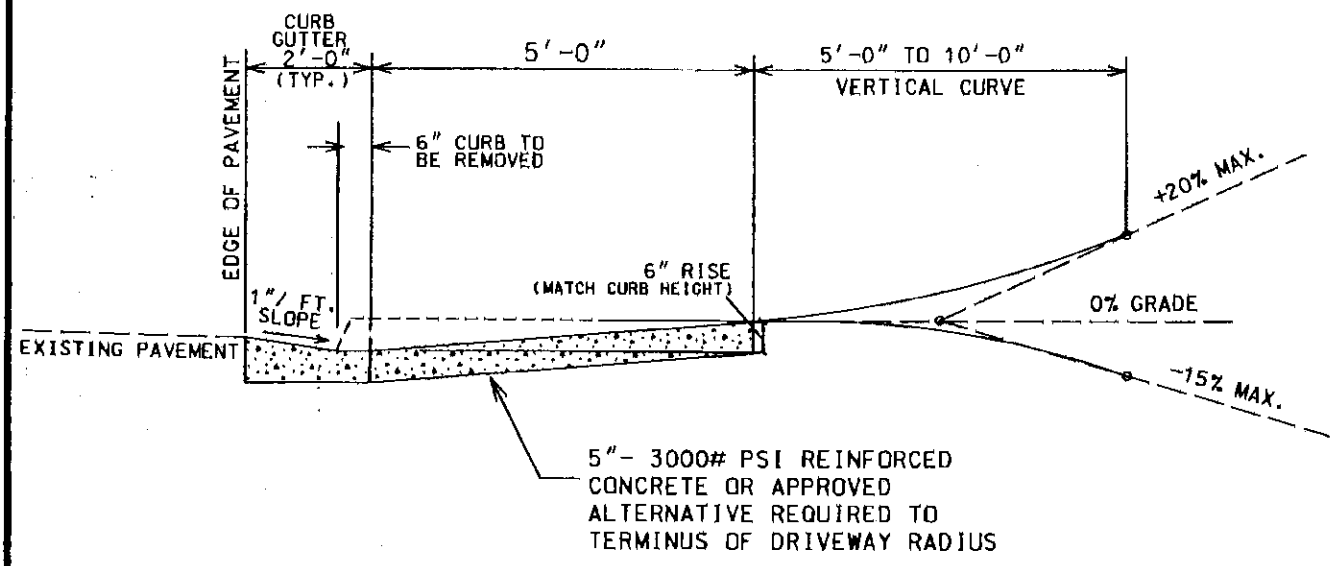
DETAILS FOR RESIDENTIAL TURNOUT (RURAL SECTION) RADIUS

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

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

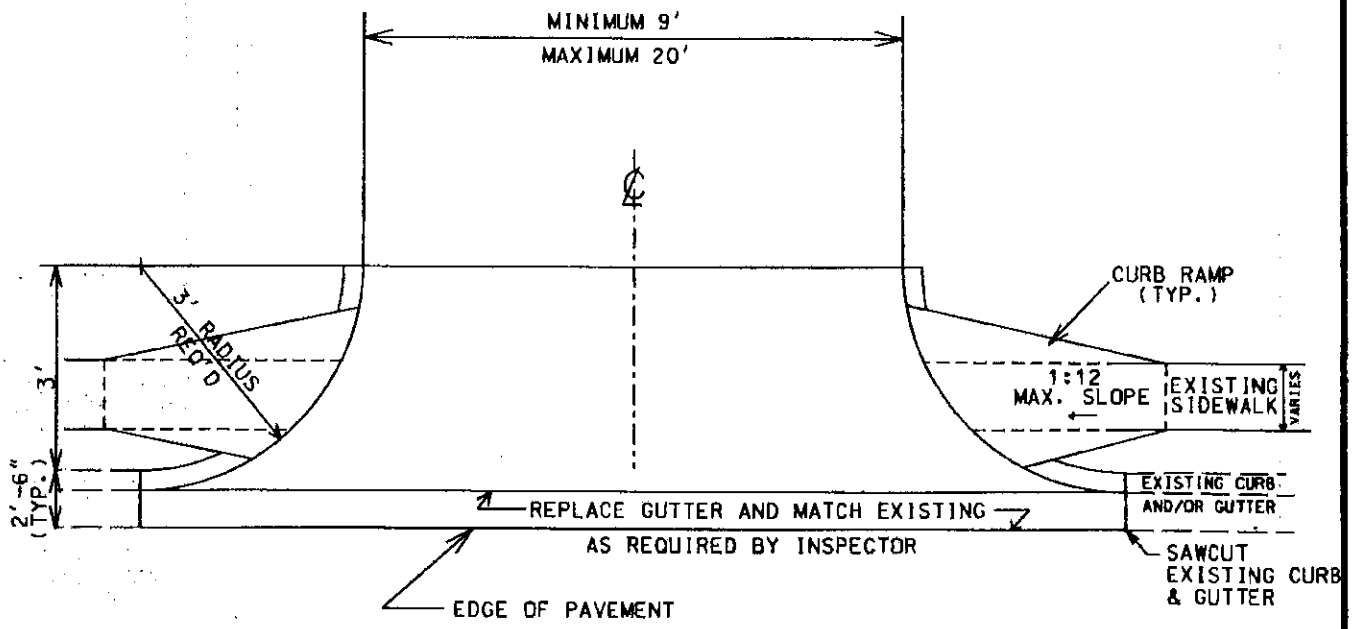
℄ PROFILE SECTION

(NOT TO SCALE)



PLAN VIEW

(NOT TO SCALE)



RESIDENTIAL DRIVEWAY WITH RADIUS CURB & GUTTER

NOTES:

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

DETAILS FOR RESIDENTIAL TURNOUT (URBAN SECTION) RADIUS

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

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

Rev. 11/15

City of Phenix City Engineering and Public Works Department

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

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

Name of Applicant _____

Mailing Address _____

City_____ State _____ Zip Code _____

Telephone Number _____

Office Use Only
Permit Number
Date Received
Date Approved

Address of Proposed Turnout _____

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

_____

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

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

Signed _____ _____
Applicant Date

Recommended for Approval:

_____ _____ _____
Authorized Representative Title Date

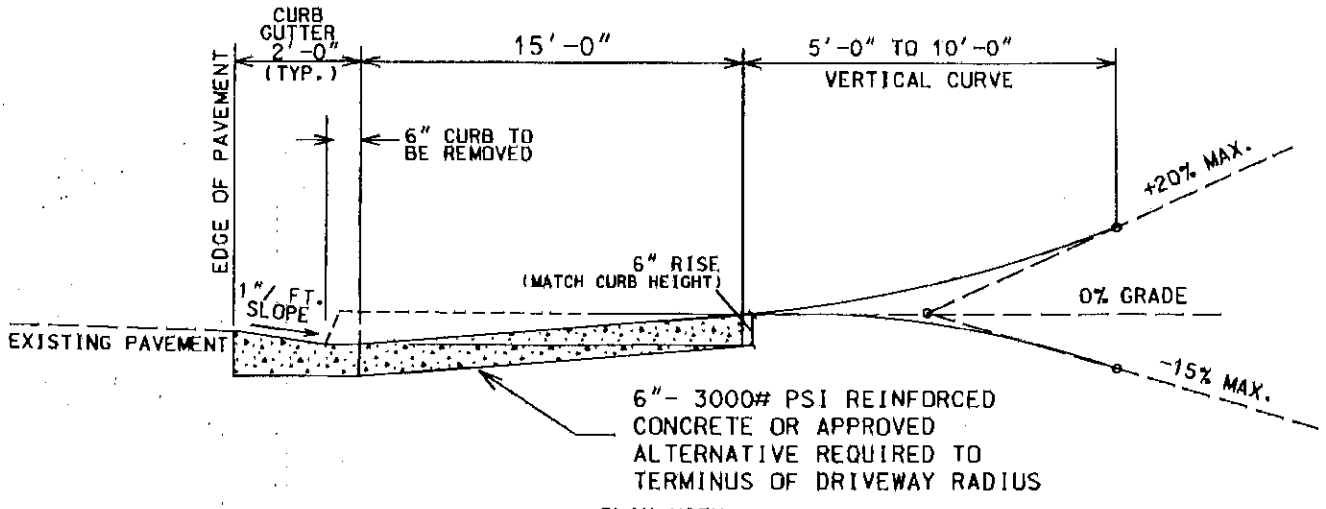
APPROVED:

_____
City Engineer

_____
Date

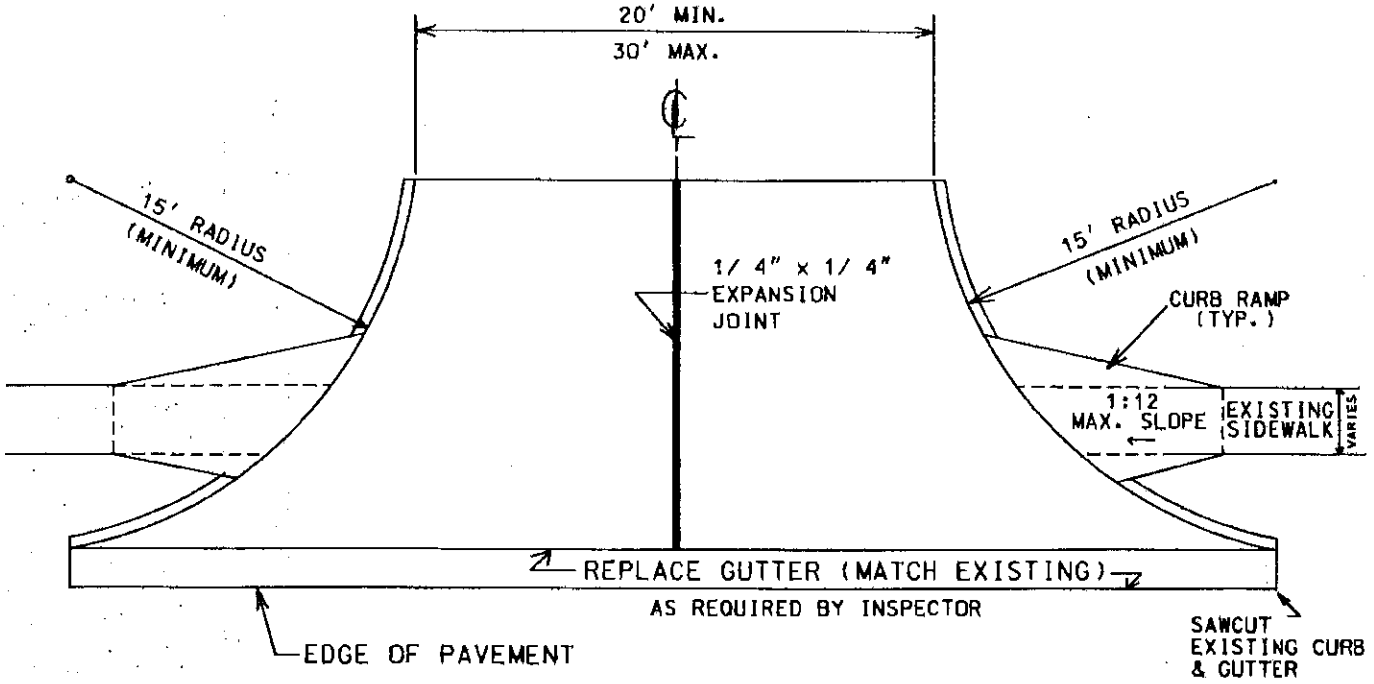
℄ PROFILE SECTION

(NOT TO SCALE)



PLAN VIEW

(NOT TO SCALE)



COMMERCIAL DRIVEWAY WITH CURB RADIUS CURB & GUTTER

PROFILE NOT TO SCALE

NOTES:

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

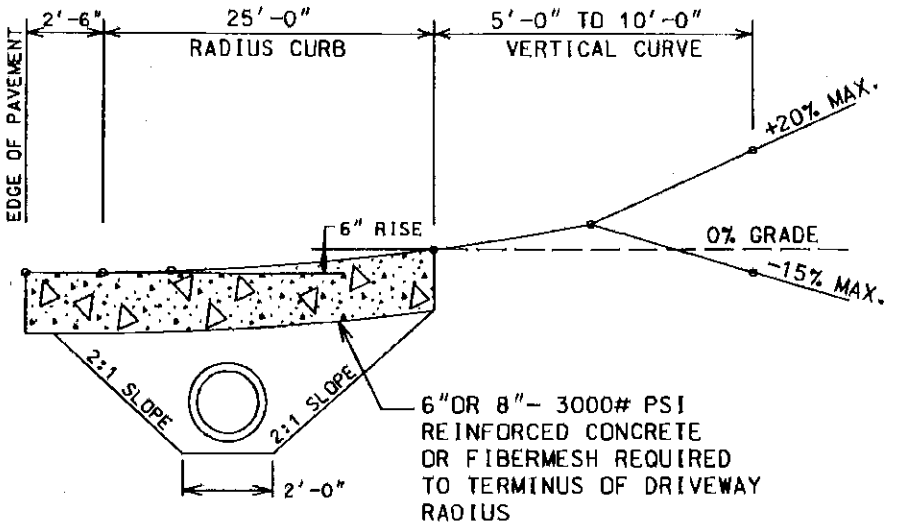
DETAILS FOR TURNOUT COMMERCIAL (URBAN SECTION) RADIUS

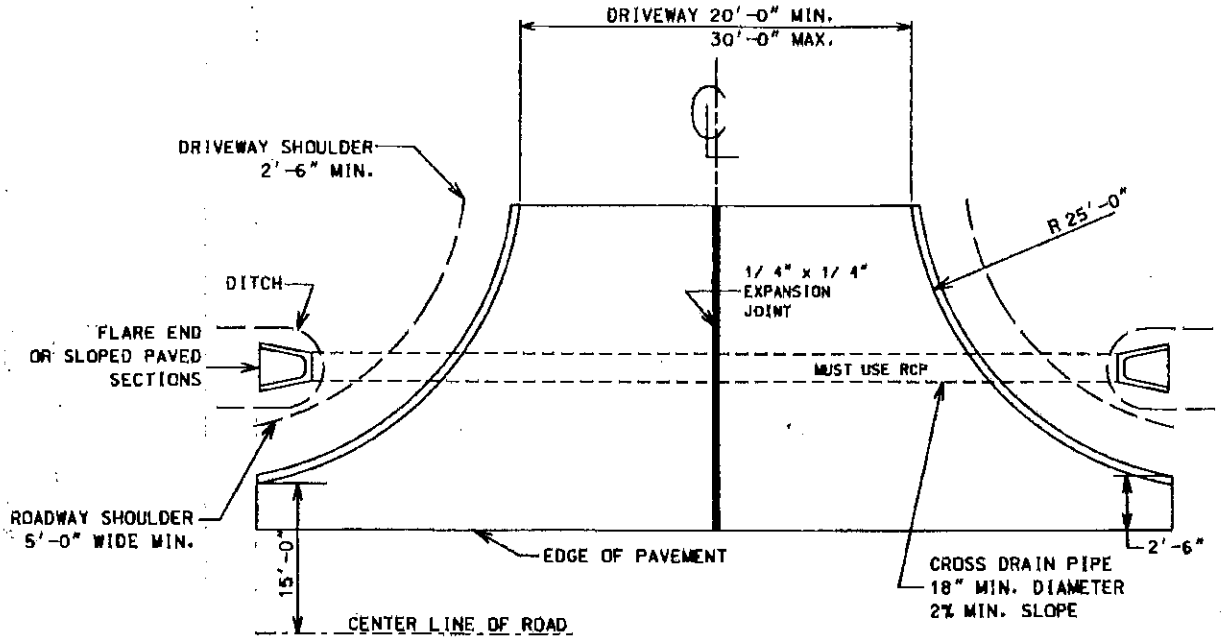
PHENIX CITY ENGINEERING DEPT.
1111 BROAD ST., BLDG. B
PHENIX CITY, ALABAMA 36867

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

℄ PROFILE SECTION

(NOT TO SCALE)





COMMERCIAL DRIVEWAY WITH CURB RADIUS
DITCH SECTION

PROFILE NOT TO SCALE

NOTES:

- DRIVEWAY SHALL BE CONSTRUCTED SO THAT STORM WATER DOES NOT ENTER OR EXIT THE ROADWAY.
- EXISTING CURB & GUTTER SHALL BE SAWCUT AND REMOVED AS REQUIRED BY INSPECTOR. TO PREVENT DAMAGE TO EXISTING PAVEMENT AND CURB. ALL EDGES SHALL BE NEAT AND STRAIGHT. EXISTING CONCRETE SHALL BE SCARIFIED TO ENSURE PROPER BONDING.
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DETAILS FOR COMMERCIAL TURNOUT
(RURAL SECTION) RADIUS

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

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

City of Phenix City
Engineering Department
Inspection Report

Date		**Time**		**Inspector**	
Rain Event		**Rainfall (in.)**		**Site Name**	
ADEM Sign		**Rain Gauge Present**		**Site Address**	

Lot #/Location	Notes

BMP INITIALS OF - Outfall SF - Silt Fence IP - Inlet Protection TD - Trash and Debris SP - Soil Pile/Bare Soil L - Landscaping CEP - Construction Exit Pad CW - Concrete Washout

General Comments	

City of Phenix City - Engineering 1206 7th Ave., Phenix City, AL 36867	**Inspector's Signature**	

DRAINAGE AND ESC INSPECTON REPORT
Engineering Department
1206 7th Avenue, Phenix City, AL 36867
Office: (334) 448-2760 - Fax: (334) 291-4848

Pre-construction: _____ Mid-construction: _____
Post-construction: _____ Inspection Date: _____

Name/Company _____ Project Name _____
Mailing Address Site Address _____
_____ Phone Number _____
Engineer/Surveyor Name & Email Address

If "fail" column has been selected for any item below, the inspection fails. Complete all items.

INSPECTION QUESTIONS	PASS	FAIL	N/A
ESC plan in place for the lot/site that has been certified by a Professional Engineer/QCP			
If applicable, BMPs installed/maintained per ESC plan			
Lot drainage appears to match drainage proposed on approved construction plans certified by a Professional Engineer			
If lot/site is over 1 acre, ESC/Land Disturbing permit has been issued/requested prior to disturbance			
If no City permit has been issued for land disturbances because lot/site is smaller than 1 acre, lot/site is in compliance with Phenix City's Erosion Control Policy, Permit by Rule (Section IV.B)			
Appears to drain away from foundation(s) (5% slope away, Section VII.J)			
Appears to drain away from neighboring lots/sites			
Maintains 25 ft. buffer from any surface waters (Section VII.C)			
→ If permittee has been approved for buffer variance, check N/A			
If inside buffer, permittee has been approved for variance			
Slopes appear to abide by slope limit? (slope ≤ 3:1, Section VII.A)			
→ If permittee has been approved for slope variance or there are no slopes, check N/A			
If steeper slope, permittee has been approved for variance			

Inspector's signature _____ Picture's attached?

Corrective actions/notes:

ADMINISTRATIVE USE ONLY

Reviewed by (Engineering)
Reviewed by (Building)

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID:	
Today's date:		Time (Military):	
Investigators:		Form completed by:	
Temperature (°F):	Rainfall (in.): Last 24 hours: Last 48 hours:		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	

Land Use in Drainage Area (Check all that apply):

☐ Industrial ☐ Open Space

☐ Ultra-Urban Residential ☐ Institutional

☐ Suburban Residential Other: _____

☐ Commercial Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		**RESULT**	**UNIT**	**EQUIPMENT**
☐Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
☐Flow #2	Flow depth		In	Tape measure
	Flow width	_____' _____"	Ft, In	Tape measure
	Measured length	_____' _____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☐ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Data Collection

1. Sample for the lab?	☐ Yes	☐ No	
2. If yes, collected from:	☐ Flow	☐ Pool	
3. Intermittent flow trap set?	☐ Yes	☐ No	If Yes, type: ☐ OBM ☐ Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

City of Phenix City Engineering Department

DETENTION POND INSPECTION FORM

SITE:_____ DATE: 12/01/2022 TIME afternoon
MAINTAINED BY:_____
PHOTOGRAHS TAKEN: Y☐ N☐ NUMBER OF PONDS ONSITE:_____

ITEMS INSPECTED

VEGETATIVE COVER:_____
_____

SEDIMENT:_____
_____

DEBRIS:_____
_____

FENCING:_____
_____

INLETS:_____
_____

EMERGENCY SPILLWAY:_____
_____

COMMENTS/CORRECTIVE ACTION NEEDED:_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

INSPECTION BY: Jonathan Foster

Appendix IV – Scrap Tire Permit

1400 Coliseum Blvd.
PO Box 301463
Montgomery AL 36130-1463
tiremail@adem.alabama.gov

Alabama Department of Environmental Management
Scrap Tire Facility Registration

BUSINESS NAME:

City of Phenix City

SITE NAME:

City of Phenix City – Public Works Department

FACILITY LOCATION:

601 12th Street
Phenix City, AL 36867

REGISTRATION NUMBER:

SC20000-054524

REGISTRATION TYPE:

Class Two Receiver

MAXIMUM AMOUNT OF TIRE MATERIALS ALLOWED TO BE ACCUMULATED:

300 Tires

In accordance with and subject to the provisions of the Alabama Scrap Tire Environmental Quality Act, Code of Alabama 1975, §§22-40A-1 to 22-40A-24, the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this facility registration, the Registrant is hereby authorized to operate the scrap tire facility at the described facility location.

ISSUANCE DATE: September 6, 2022

EFFECTIVE DATE: September 6, 2022

September 6, 2022

Alabama Department of Environmental Management

Date Signed

1400 Coliseum Blvd.
PO Box 301463
Montgomery AL 36130-1463
tiremail@adem.alabama.gov

Alabama Department of Environmental Management

Alabama Department of Environmental Management
Scrap Tire Transporter Permit

BUSINESS NAME:

Phenix City Engineering & Public Works Department

SITE NAME:

City of Phenix City

FACILITY LOCATION:

601 12th Street

Phenix City, AL 36867

PERMIT NUMBER:

STT0000-000053

TRANSPORTER TYPE:

Scrap Tire Transporter

MAXIMUM AMOUNT OF TIRE MATERIALS ALLOWED TO BE ACCUMULATED:

No Storage Allowed

In accordance with and subject to the provisions of the Alabama Scrap Tire Environmental Quality Act, Code of Alabama 1975, §§22-40A-1 to 22-40A-24, the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this facility registration, the Permittee is hereby authorized to operate the scrap tire facility at the described facility location.

ISSUANCE DATE: September 27, 2022

EFFECTIVE DATE: September 27, 2022

EXPIRATION DATE: September 26, 2025

September 27, 2022

Alabama Department of Environmental Management

Date Signed