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May 4, 2022

Woody Jacobs, Mayor
City of Cullman
P.O. Box 278
Cullman, AL 35056

RE: Draft Permit
NPDES Permit No. AL0050423
Cullman WWTP
Cullman County, Alabama

Dear Mayor Jacobs:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within **30 days** of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

Please be aware that Parts I.C.1.c and I.C.2.e of your permit require participation in the Department's Alabama Environmental Permitting and Compliance System (AEPACS) for submittal of DMRs and SSOs upon issuance of this permit unless valid justification as to why you cannot participate is submitted in writing. SSO hotline notifications and hard copy Form 415 SSO reports may be used only with the written approval from the Department. AEPACS allows ADEM to electronically validate and acknowledge receipt of the data. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. Please note that all AEPACS users can create the electronic DMRs and SSOs; however, only AEPACS users with certifier permissions will be able to submit the electronic DMRs and SSOs to ADEM.

Our records indicate that you have utilized the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs) and sanitary sewer overflow (SSO) notifications/reports. The Department transitioned from the E2 Reporting System to the Alabama Environmental Permitting and Compliance System (AEPACS) for the submittal of DMRs and SSOs on November 15, 2021. AEPACS is an electronic system that allows facilities to apply for and maintain permits as well as submit other required applications, registrations, and certifications. In addition, the system allows facilities to submit required compliance reports or other information to the Department. The Department has used the E2 User account information to set up a similar User Profile in AEPACS based on the following criteria:

1. The user has logged in to E2 since October 1, 2019; and
2. The E2 user account is set up using a unique email address.

E2 users that met the above criteria will only need to establish an ADEM Web Portal account (https://prd.adem.alabama.gov/awp) under the same email address as their E2 account to have the same permissions in AEPACS as they did in E2. They will also automatically be linked to the same facilities they were in E2.

Please also be aware that Part IV. of your permit requires that you develop, implement, and maintain a Sanitary Sewer Overflow Response Plan.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

Should you have any questions, please contact the undersigned michael.simmons@adem.alabama.gov

Sincerely,

Michael N. Simmons
Municipal Section
Water Division

Enclosure

cc: Environmental Protection Agency Email
Ms. Elaine Snyder/U.S. Fish and Wildlife Service
Ms. Elizabeth Brown/Alabama Historical Commission
Advisory Council on Historic Preservation
Department of Conservation and Natural Resources

**Birmingham Branch**
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

**Decatur Branch**
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
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**Mobile Branch**
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(251) 479-2593 (FAX)

**Mobile-Coastal**
3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)

Alabama Department of Environmental Management

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

**PERMITTEE:** CITY OF CULLMAN
P.O. BOX 278
CULLMAN, AL 35056

**FACILITY LOCATION:** CULLMAN WWTP (7.0 MGD)
1437 WELTI ROAD
CULLMAN, ALABAMA
CULLMAN COUNTY

**PERMIT NUMBER:** AL0050423

**RECEIVING WATERS:** Eightmile Creek
Ryan Creek

*In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1388 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, **Code of Alabama 1975**, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, **Code of Alabama 1975**, §§22-22A-1 to 22-22A-17, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.*

**ISSUANCE DATE:**

**EFFECTIVE DATE:**

**EXPIRATION DATE:**

**Draft**

Alabama Department of Environmental Management

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# PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

## A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

### 1. DSN 001-2: Industrial/Municipal Effluent Discharge

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

| Parameter | Quantity or Loading | | Units | Quality or Concentration | | | Units | Sample Freq See note (1) | Sample Type | Seasonal See note (2) |
|---|---|---|---|---|---|---|---|---|---|---|
| Oxygen, Dissolved (DO) (00300) Effluent Gross Value | ***** | ***** | ***** | 6.0 Minimum Daily | ***** | ***** | mg/l | 3X Weekly test | Grab | Not Seasonal |
| pH (00400) Effluent Gross Value | ***** | ***** | ***** | 6.0 Minimum Daily | ***** | 8.5 Maximum Daily | S.U. | 3X Weekly test | Grab | Not Seasonal |
| Solids, Total Suspended (00530) Effluent Gross Value | 1751 Monthly Average | 2627 Weekly Average | lbs/day | ***** | 30.0 Monthly Average | 45.0 Weekly Average | mg/l | 3X Weekly test | 24-Hr Composite | Not Seasonal |
| Solids, Total Suspended (00530) Raw Sew/Influent | (Report) Monthly Average | (Report) Weekly Average | lbs/day | ***** | (Report) Monthly Average | (Report) Weekly Average | mg/l | 3X Weekly test | 24-Hr Composite | Not Seasonal |
| Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value | 58.3 Monthly Average | 87.5 Weekly Average | lbs/day | ***** | 1.0 Monthly Average | 1.5 Weekly Average | mg/l | 3X Weekly test | 24-Hr Composite | S |
| Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value | 145 Monthly Average | 218 Weekly Average | lbs/day | ***** | 2.5 Monthly Average | 3.7 Weekly Average | mg/l | 3X Weekly test | 24-Hr Composite | W |
| Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value | (Report) Monthly Average | (Report) Weekly Average | lbs/day | ***** | (Report) Monthly Average | (Report) Weekly Average | mg/l | Monthly | 24-Hr Composite | Not Seasonal |
| Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value | (Report) Monthly Average | (Report) Weekly Average | lbs/day | ***** | (Report) Monthly Average | (Report) Weekly Average | mg/l | Monthly | 24-Hr Composite | Not Seasonal |
| Phosphorus, Total (As P) (00665) Effluent Gross Value | (Report) Monthly Average | (Report) Weekly Average | lbs/day | ***** | (Report) Monthly Average | (Report) Weekly Average | mg/l | Monthly | 24-Hr Composite | Not Seasonal |
| Copper Total Recoverable (01119) Effluent Gross Value | ***** | ***** | ***** | ***** | 24.95 Monthly Average | 37.06 Maximum Daily | ug/l | Monthly | Grab | Not Seasonal |

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (May-November)
W = Winter (December - April)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" or "NODI=9" (if hard copy) on the monthly DMR.

(4) A measurement of Total Residual Chlorine below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as NODI=B or *B on the discharge monitoring reports.

## 1. DSN 001-2 (Continued): Industrial/Municipal Effluent Discharge

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

| Parameter | Quantity or Loading | | Units | Quality or Concentration | | | Units | Sample Freq See note (1) | Sample Type | Seasonal See note (2) |
|---|---|---|---|---|---|---|---|---|---|---|
| Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value | (Report) Monthly Average | (Report) Maximum Daily | MGD | ***** | ***** | ***** | ***** | Daily | Continuous | Not Seasonal |
| Chlorine, Total Residual (50060) See notes (3, 4) Effluent Gross Value | ***** | ***** | ***** | ***** | 0.012 Monthly Average | 0.021 Maximum Daily | mg/l | 3X Weekly test | Grab | Not Seasonal |
| E. Coli (51040) Effluent Gross Value | ***** | ***** | ***** | ***** | 548 Monthly Average | 2507 Maximum Daily | col/100mL | 3X Weekly test | Grab | ECW |
| E. Coli (51040) Effluent Gross Value | ***** | ***** | ***** | ***** | 126 Monthly Average | 298 Maximum Daily | col/100mL | 3X Weekly test | Grab | ECS |
| BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value | 642 Monthly Average | 963 Weekly Average | lbs/day | ***** | 11.0 Monthly Average | 16.5 Weekly Average | mg/l | 3X Weekly test | 24-Hr Composite | S |
| BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value | 934 Monthly Average | 1401 Weekly Average | lbs/day | ***** | 16.0 Monthly Average | 24.0 Weekly Average | mg/l | 3X Weekly test | 24-Hr Composite | W |
| BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent | (Report) Monthly Average | (Report) Weekly Average | lbs/day | ***** | (Report) Monthly Average | (Report) Weekly Average | mg/l | 3X Weekly test | 24-Hr Composite | Not Seasonal |
| BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal | ***** | ***** | ***** | 85.0 Monthly Average Minimum | ***** | ***** | % | Monthly | Calculated | Not Seasonal |
| Solids, Suspended Percent Removal (81011) Percent Removal | ***** | ***** | ***** | 85.0 Monthly Average Minimum | ***** | ***** | % | Monthly | Calculated | Not Seasonal |

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (May-November)
W = Winter (December - April)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" or "NODI=9" (if hard copy) on the monthly DMR.

(4) A measurement of Total Residual Chlorine below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as NODI=B or *B on the discharge monitoring reports.

## 2. DSN 001-Q: Quarterly Mercury Monitoring

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

| Parameter | Quantity or Loading | | Units | Quality or Concentration | | | Units | Sample Freq See note (1) | Sample Type | Seasonal See note (2) |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury Total Recoverable (71901) See Notes (3,4) Effluent Gross Value | ***** | ***** | ***** | ***** | 0.013 Monthly Average | 2.56 Maximum Daily | ug/l | Quarterly | Grab | Not Seasonal |

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (May-November)
W = Winter (December - April)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

(3) EPA Methods 1631E/1669, or alternative methods approved by the Department, shall be used for the analysis of this parameter.

(4) If only one sampling event occurs during a quarter, the sample result shall be reported on the quaerterly DMR as both the monthly average and the daily maximum value.

### 3. DSN 001-T: Chronic Toxicity

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

| Parameter | Quantity or Loading | | Units | Quality or Concentration | | | Units | Sample Freq See note (1) | Sample Type | Seasonal See note (2) |
|---|---|---|---|---|---|---|---|---|---|---|
| Toxicity, Ceriodaphnia Chronic (61426) Effluent Gross Value | ***** | 0 Single Sample | pass=0;fail=1 | ***** | ***** | ***** | ***** | See Permit Requirements | 24-Hr Composite | September |
| Toxicity, Pimephales Chronic (61428) Effluent Gross Value | ***** | 0 Single Sample | pass=0;fail=1 | ***** | ***** | ***** | ***** | See Permit Requirements | 24-Hr Composite | September |

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (May-November)
W = Winter (December - April)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

**4. DSN 002-S, 003-S, 004-S, 005-S, 006-S, 007-S, 008-S, and 009-S: Stormwater Outfalls**

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfalls 002-S, 003-S, 004-S, 005-S, 006-S, 007-S, 008-S, and 009-S, which are described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

| Parameter | Quantity or Loading | | Units | Quality or Concentration | | | Units | Sample Freq See note (1) | Sample Type | Seasonal See note (2) |
|---|---|---|---|---|---|---|---|---|---|---|
| pH (00400) Storm Water | ***** | ***** | ***** | (Report) Minimum Daily | ***** | (Report) Maximum Daily | S.U. | Annually | Grab | Not Seasonal |
| Solids, Total Suspended (00530) Storm Water | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | mg/l | Annually | Grab | Not Seasonal |
| Oil & Grease (00556) Storm Water | ***** | ***** | ***** | ***** | ***** | 15 Maximum Daily | mg/l | Annually | Grab | Not Seasonal |
| Nitrogen, Ammonia Total (As N) (00610) Storm Water | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | mg/l | Annually | Grab | Not Seasonal |
| Nitrogen, Kjeldahl Total (As N) (00625) Storm Water | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | mg/l | Annually | Grab | Not Seasonal |
| Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Storm Water | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | mg/l | Annually | Grab | Not Seasonal |
| Phosphorus, Total (As P) (00665) Storm Water | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | mg/l | Annually | Grab | Not Seasonal |
| Flow, In Conduit or Thru Treatment Plant (50050) Storm Water | ***** | (Report) Maximum Daily | MGD | ***** | ***** | ***** | ***** | Annually | Calculated | Not Seasonal |
| E. Coli (51040) Storm Water | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | col/100mL | Annually | Grab | Not Seasonal |
| BOD, Carbonaceous 05 Day, 20C (80082) Storm Water | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | mg/l | Annually | Grab | Not Seasonal |

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (May-November)
W = Winter (December - April)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

(3) See Part IV.F.3

- Storm water sampling and reporting for all outfalls may be accomplished by sampling the following designated outfalls: Outfall 002S (representative of Outfalls 003S through 008S) and Outfall 009S.

## B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

   Sample collection and measurement actions shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit. The effluent sampling point shall be at the nearest accessible location just prior to discharge and after final treatment, unless otherwise specified in the permit.

2. Measurement Frequency

   Measurement frequency requirements found in Provision I.A. shall mean:

   a. Seven days per week shall mean daily.

   b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.

   c. Three days per week shall mean any three days of discharge during a calendar week.

   d. Two days per week shall mean any two days of discharge during a calendar week

   e. One day per week shall mean any day of discharge during a calendar week.

   f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.

   g. One day per month shall mean any day of discharge during the calendar month.

   h. Quarterly shall mean any day of discharge during each calendar quarter.

   i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. **Test Procedures**

   For the purpose of reporting and compliance, permittees shall use one of the following procedures:

   a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.

   b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

      Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the permittee during permit issuance, reissuance, modification, or during compliance schedule.

      In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

   c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

      The Minimum Level utilized for procedures a and b above shall be reported on the permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

4. **Recording of Results**

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The facility name and location, point source number, date, time and exact place of sampling;

b. The name(s) of person(s) who obtained the samples or measurements;

c. The dates and times the analyses were performed;

d. The name(s) of the person(s) who performed the analyses;

e. The analytical techniques or methods used, including source of method and method number; and

f. The results of all required analyses.

5. Records Retention and Production

a. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.

b. All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

6. **Reduction, Suspension or Termination of Monitoring and/or Reporting**

a. The Director may, with respect to any point source identified in Provision I.A. of this permit, authorize the permittee to reduce, suspend or terminate the monitoring and/or reporting required by this permit upon the submission of a written request for such reduction, suspension or termination by the permittee, supported by sufficient data which demonstrates to the satisfaction of the Director that the discharge from such point source will continuously meet the discharge limitations specified in Provision I.A. of this permit.

b. It remains the responsibility of the permittee to comply with the monitoring and reporting requirements of this permit until written authorization to reduce, suspend or terminate such monitoring and/or reporting is received by the permittee from the Director.

7. **Monitoring Equipment and Instrumentation**

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

## C. DISCHARGE REPORTING REQUIREMENTS

1. **Reporting of Monitoring Requirements**

a. The permittee shall conduct the required monitoring in accordance with the following schedule:

(1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.

(2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).

(3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).

(4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.

b. The permittee shall submit discharge monitoring reports (DMRs) in accordance with the following schedule:

(1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

(2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the first complete calendar quarter the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

(3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

(4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b. electronically.

(1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b., unless otherwise directed by the Department.

If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date), if applicable.

(2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.

(3) A permittee with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

(4) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.

(5) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.

(6) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.

d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and Regulations, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

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

e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

**Alabama Department of Environmental Management**
**Environmental Data Section, Permits & Services Division**
**Post Office Box 301463**
**Montgomery, Alabama 36130-1463**

Certified and Registered Mail containing Discharge Monitoring Reports shall be addressed to:

**Alabama Department of Environmental Management**
**Environmental Data Section, Permits & Services Division**
**1400 Coliseum Boulevard**
**Montgomery, Alabama 36110-2400**

f. All other correspondence and reports required to be submitted by this permit, the AWPCA, and the Department's Rules shall be addressed to:

**Alabama Department of Environmental Management**
**Municipal Section, Water Division**
**Post Office Box 301463**
**Montgomery, Alabama 36130-1463**

Certified and Registered Mail shall be addressed to:

**Alabama Department of Environmental Management**
**Environmental Data Section, Permits & Services Division**
**1400 Coliseum Boulevard**
**Montgomery, Alabama 36110-2400**

g. If this permit is a reissuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b. above.

2. **Noncompliance Notifications and Reports**

a. The Permittee shall notify the Department if, for any reason, the Permittee's discharge:

(1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I.A. of this permit which is denoted by an "(X)";

(2) Potentially threatens human health or welfare:

(3) Threatens fish or aquatic life;

(4) Causes an in-stream water quality criterion to be exceeded;

(5) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);

(6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);

(7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A. as a result of an unanticipated bypass or upset; or

(8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state. (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision.)

The Permittee shall orally or electronically provide notification of any of the above occurrences, describing the circumstances and potential effects, to the Director or Designee within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic notification, the Permittee shall submit a report to the Director or Designee, as provided in Provision I.C.2.c. or I.C.2.e., no later than five days after becoming aware of the occurrence of such discharge or occurrence.

b. If, for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.

c. Except for notifications and reports of notifiable SSOs which shall be submitted in accordance with the applicable Provisions of this permit, the Permittee shall submit the reports required under Provisions I.C.2.a. and b. to the Director or Designee on ADEM Form 421, available on the Department's website (http://www.adem.state.al.us/DeptForms/Form421.pdf). The completed Form must document the following information:

(1) A description of the discharge and cause of noncompliance;

(2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If the noncompliance is not corrected by the due date of the written report, then the Permittee shall provide an estimated date by which the noncompliance will be corrected; and

(3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge and to prevent its recurrence.

d. Immediate notification

The Permittee shall provide notification to the Director, the public, the county health department, and any other affected entity such as public water systems, as soon as possible upon becoming aware of any notifiable sanitary sewer overflow. Notification to the Director shall be completed utilizing the Department's web-based electronic environmental SSO reporting system in accordance with Provision I.C.2.e.

e. The Department is utilizing an electronic system for notification and submittal of SSO reports. Except as noted below, the Permittee must submit all SSO reports electronically in the Department's electronic system. If requested, waivers from utilization of the electronic system shall be submitted in accordance with ADEM Admin. Code 335-6-1-.04(6). The Department's electronic reporting system shall be utilized unless a written waiver has been granted. A waiver is not effective until receipt of written approval from the Department. Utilization of verbal notifications and hard copy SSO report submittals is allowed only if approved in writing by the Department. The Permittee shall include in the SSO reports the information requested by ADEM Form 415. In addition, the Permittee shall include the latitude and longitude of the SSO in the report except when the SSO is a result of an extreme weather event (e.g., hurricane). To participate in the electronic system for SSO reports, an account may be created at https://aepacs.adem.alabama.gov/nviro/ncore/external/home. If the electronic system is down (i.e., electronic submittal of SSO data cannot be completed due to technical problems originating with the Department's system), the Permittee is not relieved of its obligation to notify the Department or submit SSO reports to the Department by the required submittal date, and the Permittee shall submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include verbal reports, reports submitted via the SSO hotline, or reports submitted via fax, e-mail, mail, or hand-delivery such that they are

received by the required reporting date. Within five calendar days of the electronic system resuming operation, the Permittee shall enter the data into the electronic system, unless an alternate timeframe is approved by the Department. For any alternate notification, records of the date, time, notification method, and person submitting the notification should be maintained by the Permittee. If a Permittee is allowed to submit SSO reports via an alternate method, the SSO report must be in a format approved by the Department and must be legible.

f. The Permittee shall maintain a record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall include this record in its **Municipal Water Pollution Prevention (MWPP) Annual Reports**, which shall be submitted to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The MWPP Annual Reports shall contain a list of all known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The Permittee shall also provide in the MWPP Annual Reports a list of any discharges reported during the applicable time period in accordance with Provision I.C.2.a. The Permittee shall include in its MWPP Annual Reports the following information for each known unpermitted discharge that occurred:

(1) The cause of the discharge;

(2) Date, duration and volume of discharge (estimate if unknown);

(3) Description of the source (e.g., manhole, lift station);

(4) Location of the discharge, by latitude and longitude (or other appropriate method as approved by the Department);

(5) The ultimate destination of the flow (e.g., surface waterbody, municipal separate storm sewer to surface waterbody). Location should be shown on a USGS quad sheet or copy thereof; and

(6) Corrective actions taken and/or planned to eliminate future discharges.

## D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. **Anticipated Noncompliance**

The permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. **Termination of Discharge**

The permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. **Updating Information**

a. The permittee shall inform the Director of any change in the permittee's mailing address or telephone number or in the permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the permittee shall furnish the Director with an update of any information provided in the permit application.

b. If the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. **Duty to Provide Information**

The permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

## E. SCHEDULE OF COMPLIANCE

1. **Compliance with discharge limits**

The permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

**COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT**

2. **Schedule**

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

# PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

## A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. **Facilities Operation and Maintenance**

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. **Best Management Practices**

a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.

b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.

c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. **Certified Operator**

The permittee shall not operate any wastewater treatment plant unless the competency of the operator to operate such plant has been duly certified by the Director pursuant to AWPCA, and meets the requirements specified in ADEM Administrative Code, Rule 335-10-1.

## B. OTHER RESPONSIBILITIES

1. **Duty to Mitigate Adverse Impacts**

The permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

2. **Right of Entry and Inspection**

a. The permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

(1) Enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;

(3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and

(4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

## C. BYPASS AND UPSET

1. **Bypass**

a. Any bypass is prohibited except as provided in b. and c. below:

b. A bypass is not prohibited if:

(1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;

(2) It enters the same receiving stream as the permitted outfall; and

(3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.

c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:

(1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and

(3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.

d. The permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. **Upset**

a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:

(1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and

(2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:

(i) An upset occurred;

(ii) The Permittee can identify the specific cause(s) of the upset;

(iii) The Permittee's facility was being properly operated at the time of the upset; and

(iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.

b. The permittee has the burden of establishing that each of the conditions of Provision II. C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

## D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

1. **Duty to Comply**

a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.

b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.

c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.

d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.

e. Nothing in this permit shall be construed to preclude or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications,or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.

2. **Removed Substances**

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

3. **Loss or Failure of Treatment Facilities**

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. **Compliance with Statutes and Rules**

a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.

b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

## E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

1. **Duty to Reapply or Notify of Intent to Cease Discharge**

a. If the permittee intends to continue to discharge beyond the expiration date of this permit, the permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.

b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. **Change in Discharge**

Prior to any facility expansion, process modification or any significant change in the method of operation of the permittee's treatment works, the permittee shall provide the Director with information concerning the planned expansion, modification or change. The permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, significant change in the method of operation of the permittee's treatment works, or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. **Transfer of Permit**

This permit may not be transferred or the name of the permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership, or control of the permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to

be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership, or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. **Permit Modification and Revocation**

   a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:

      (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;

      (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or

      (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.

   b. This permit may be modified during its term for cause, including but not limited to, the following:

      (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;

      (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;

      (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;

      (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;

      (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;

      (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;

      (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;

      (8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;

      (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;

      (10) When required by the reopener conditions in this permit;

      (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);

      (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;

      (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or

      (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules; or

5. **Termination**

   This permit may be terminated during its term for cause, including but not limited to, the following:

   a. Violation of any term or condition of this permit;

   b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;

   c. Materially false or inaccurate statements or information in the permit application or the permit;

d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;

e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;

f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;

g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee.

h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. **Suspension**

This permit may be suspended during its term for noncompliance until the permittee has taken action(s) necessary to achieve compliance.

7. **Stay**

The filing of a request by the permittee for modification, suspension, or revocation of this permit, in whole or in part, does not stay any permit term or condition.

## F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the permittee and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit, or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition and the permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

## G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new direct discharger prior to approval and permitting, if applicable, of the discharge by the Department.

2. The permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by the Department.

3. The permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water or quality of sludge. Such report shall be submitted within seven days of the permittee becoming aware of the adverse impacts.

## H. PROHIBITIONS

The permittee shall not allow, and shall take effective enforcement action to prevent and terminate, the introduction of any of the following into its treatment works by industrial users:

1. Pollutants which create a fire or explosion hazard in the treatment works;

2. Pollutants which will cause corrosive structural damage to the treatment works, or dischargers with a pH lower than 5.0 s.u., unless the works are specifically designed to accommodate such discharges;

3. Solid or viscous pollutants in amounts which will cause obstruction of flow in sewers, or other interference with the treatment works;

4. Pollutants, including oxygen demanding pollutants, released in a discharge of such volume or strength as to cause interference in the treatment works;

5. Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference or in such quantities that the temperature of the treatment plant influent exceeds 40 °C (104 °F) unless the treatment plant is designed to accommodate such heat;

6. Pollutants in amounts which exceed any applicable pretreatment standard under Section 307 of FWPCA or any approved revisions thereof.

# PART III: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

## A. CIVIL AND CRIMINAL LIABILITY

1. **Tampering**

   Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. **False Statements**

   Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. **Permit Enforcement**

   a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.

   b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:

      (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;

      (2) An action for damages;

      (3) An action for injunctive relief; or

      (4) An action for penalties.

   c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:

      (1) Initiate enforcement action based upon the permit which has been continued;

      (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;

      (3) Reissue the new permit with appropriate conditions; or

      (4) Take other actions authorized by these rules and AWPCA.

4. **Relief from Liability**

   Except as provided in Provision II. C. 1. (Bypass) and Provision II. C. 2. (Upset), nothing in this permit shall be construed to relieve the permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

## B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

## C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

## D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under Code of Alabama 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

## E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility, and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
   a. Begun, or caused to begin as part of a continuous on-site construction program:
      (1) Any placement, assembly, or installation of facilities or equipment; or
      (2) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which are necessary for the placement, assembly, or installation of new source facilities or equipment; or
   b. Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
4. Final plans and specifications for a waste treatment facility at a new source or new discharger, or a modification to an existing waste treatment facility must be submitted to and examined by the Department prior to initiating construction of such treatment facility by the permittee.
5. Upon completion of construction of waste treatment facilities and prior to operation of such facilities, the permittee shall submit to the Department a certification from a registered professional engineer, licensed to practice in the State of Alabama, that the treatment facilities have been built according to plans and specifications submitted to and examined by the Department.

## F. COMPLIANCE WITH WATER QUALITY STANDARDS

1. On the basis of the permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
2. Compliance with permit terms and conditions notwithstanding, if the permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

## G. GROUNDWATER

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the permittee undertake measures to abate any such discharge and/or contamination.

## H. DEFINITIONS

1. **Average monthly discharge limitation** - means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
2. **Average weekly discharge limitation** - means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
3. **Arithmetic Mean** – means the summation of the individual values of any set of values divided by the number of individual values.
4. **AWPCA** - means the Alabama Water Pollution Control Act.
5. **BOD** – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. **Bypass** - means the intentional diversion of waste streams from any portion of a treatment facility.
7. **CBOD** – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. **Daily discharge** - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
9. **Daily maximum** - means the highest value of any individual sample result obtained during a day.
10. **Daily minimum** - means the lowest value of any individual sample result obtained during a day.
11. **Day** - means any consecutive 24-hour period.
12. **Department** - means the Alabama Department of Environmental Management.
13. **Director** - means the Director of the Department.
14. **Discharge** - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(9).
15. **Discharge Monitoring Report (DMR)** - means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
16. **DO** – means dissolved oxygen.
17. **8HC** – means 8-hour composite sample, including any of the following:
    a. The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 1 hour over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
    b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
18. **EPA** - means the United States Environmental Protection Agency.
19. **FC** – means the pollutant parameter fecal coliform.
20. **Flow** – means the total volume of discharge in a 24-hour period.
21. **FWPCA** - means the Federal Water Pollution Control Act.
22. **Geometric Mean** – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).

23. **Grab Sample** – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.

24. **Indirect Discharger** – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.

25. **Industrial User** – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D – Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.

26. **MGD** – means million gallons per day.

27. **Monthly Average** – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.

28. **New Discharger** – means a person, owning or operating any building, structure, facility, or installation:

    a) From which there is or may be a discharge of pollutants;

    b) That did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and

    c) Which has never received a final effective NPDES permit for dischargers at that site.

29. **NH3-N** – means the pollutant parameter ammonia, measured as nitrogen.

30. **Notifiable sanitary sewer overflow** - means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:

    a) Reaches a surface water of the State; or

    b) May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.

31. **Permit application** - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.

32. **Point source** - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).

33. **Pollutant** - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.

34. **Privately Owned Treatment Works** – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".

35. **Publicly Owned Treatment Works (POTW)** – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.

36. **Receiving Stream** – means the "waters" receiving a "discharge" from a "point source".

37. **Severe property damage** - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

38. **Significant Source** – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.

39. **TKN** – means the pollutant parameter Total Kjeldahl Nitrogen.

40. **TON** – means the pollutant parameter Total Organic Nitrogen.

41. **TRC** – means Total Residual Chlorine.

42. **TSS** – means the pollutant parameter Total Suspended Solids.

43. **24HC** – means 24-hour composite sample, including any of the following:

    a) The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;

    b) A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected;

    c) A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.

44. **Upset** - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

45. **Waters** - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.

46. **Week** - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.

47. **Weekly (7-day and calendar week) Average** – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

## I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

# PART IV: SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

## A. SLUDGE MANAGEMENT PRACTICES

1. **Applicability**

   a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural or non-agricultural land, and that is otherwise distributed, marketed, disposed in landfills, land applied to the ground surface, or incinerated.

   b. Provisions of Provision IV.A. do not apply to:

      (1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.

      (2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.

2. **Submitting Information**

   a. The permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.

   b. The permittee shall give prior notice to the Director of at least 30 days of any change planned in the permittee's sludge disposal practices.

3. **Reopener or Modification**

   a. Upon review of information provided by the permittee in accordance with Provision IV.A.2. or, based upon the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate revised or additional requirements.

   b. If an improved "acceptable management practice" is identified or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit, then this permit shall be modified or revoked and reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the revised limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

## B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

1. **Chronic Toxicity Test**

   a. The permittee shall perform short-term chronic toxicity tests on the wastewater at **Outfall 001-2**.

   b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is **93 percent** effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.

   c. Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and test samples at the 95% confidence level indicates chronic toxicity and shall constitute noncompliance with this permit.

2. **General Test Requirements**

   a. A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests. Samples shall be collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 (most current edition) or another control water selected by the Permittee and approved by the Department.

   b. Test results shall be deemed unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period for the following:

(1) For testing with P. promelas: effluent toxicity tests with control survival of less than 80% or if dry weight per surviving control organism is less than 0.25 mg;

(2) For testing with C. dubia: if the number of young per surviving control organism is less than 15 or if less than 60% of surviving control females produce three broods; or

(3) If the other requirements of the EPA Test Procedure are not met.

c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are to be reported to the Department along with an explanation of the tests performed and the test results.

d. Toxicity tests shall be conducted for the duration of this permit in the month of **September**. Should results from the Annual Toxicity test indicate that **Outfall 001-2** exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part IV.B.4.a. In addition, the Permittee may then also be required to conduct toxicity testing in the months of March, June, September, and December.

3. **Reporting Requirements**

a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).

b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Sections 2 and 6 shall be included with the DMR. The test results must be submitted to the Department no later than 28 days after the month that tests were performed.

4. **Additional Testing Requirements**

a. If chronic toxicity is indicated (i.e., noncompliance with permit limit), then the Permittee must perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date that the Permittee became aware of the permit noncompliance. The results of these follow-up tests shall be submitted to the Department no later than 28 days following the month the tests were performed.

b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols and guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022, and/or EPA/600/6-91/005F)

5. **Test Methods**

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The Larval Survival and Growth Test, Method 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.

6. **Effluent Toxicity Testing Reports**

The following information shall be submitted with each DMR unless otherwise directed by the Department. The Department may at any times suspend or reinstate this requirement or may decrease or increase the frequency of submittals.

a. Introduction

(1) Facility name, location and county

(2) Permit number

(3) Toxicity testing requirements of permit

(4) Name of receiving water body

(5) Contract laboratory information (if tests are performed under contract)

(i) Name of firm

(ii) Telephone number

(iii) Address

(6) Objective of test

b. Plant Operations

(1) Discharge Operating schedule (if other than continuous)

(2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)

(3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

(1) Effluent samples

(2) Sampling point

(3) Sample collection dates and times (to include composite sample start and finish times)

(4) Sample collection method

(5) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)

(6) Lapsed time from sample collection to delivery

(7) Lapsed time from sample collection to test initiation

(8) Sample temperature when received at the laboratory

(9) Dilution Water

(10) Source

(11) Collection/preparation date(s) and time(s)

(12) Pretreatment (if applicable)

(13) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)

d. Test Conditions

(1) Toxicity test method utilized

(2) End point(s) of test

(3) Deviations from referenced method, if any, and reason(s)

(4) Date and time test started

(5) Date and time test terminated

(6) Type and volume of test chambers

(7) Volume of solution per chamber

(8) Number of organisms per test chamber

(9) Number of replicate test chambers per treatment

(10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)

(11) Specify if aeration was needed

(12) Feeding frequency, amount, and type of food

(13) Specify if (and how) pH control measures were implemented

(14) Light intensity (mean)

e. Test Organisms

(1) Scientific name

(2) Life stage and age

(3) Source

(4) Disease(s) treatment (if applicable)

f. Quality Assurance

(1) Reference toxicant utilized and source

(2) Date and time of most recent chronic reference toxicant test(s), raw data, and current control chart(s). (The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.)

(3) Dilution water utilized in reference toxicant test

(4) Results of reference toxicant test(s) (NOEC, IC25, etc.); report concentration-response relationship and evaluate test sensitivity

(5) Physical and chemical methods utilized

g. Results

(1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate

(2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)

(3) Indicate statistical methods used to calculate endpoints

(4) Provide all physical and chemical data required by method

(5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sublethal endpoints determined by hypothesis testing.

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Actions to be taken

Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, October 2002 (EPA 821-R-02-013), Section 10, Report Preparation.

## C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

1. If chlorine is not utilized for disinfection purposes, TRC monitoring under Part I of this Permit is not required. If TRC monitoring is not required (conditional monitoring), "*9" or "NODI = 9" (if hard copy) should be reported on the DMR forms.

2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to actual discharge to the receiving stream using one of these methods (i.e., the analytical result is less than the detection level), the Permittee shall report on the DMR form "*B", "NODI = B" (if hard copy), or "0". The Permittee shall then be considered to be in compliance with the daily maximum concentration limit for TRC.

3. This permit contains a maximum allowable TRC level in the effluent. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with E.coli limits. The effluent shall be dechlorinated if necessary to meet the maximum allowable effluent TRC level.

4. The sample collection point for effluent TRC shall be at a point downstream of the chlorine contact chamber (downstream of dechlorination, if applicable). The exact location is to be approved by the Director.

## D. PLANT CLASSIFICATION

The Permittee shall report to the Director within 30 days of the effective date of this permit, the name, address and operator number of the certified wastewater operator in responsible charge of the facility. Unless specified elsewhere in this permit, this facility shall be classified in accordance with ADEM Admin. Code R. 335-10-1-.03.

## E. POLLUTANT SCANS

The Permittee shall sample and analyze for the pollutants listed in 40 CFR 122 Appendix J Table 2. The Permittee shall provide data from a minimum of three samples collected within the four and one-half years prior to submitting a permit application. Samples must be representative of the seasonal variation in the discharge from each outfall.

## F. MAJOR SOURCE STORMWATER REQUIREMENTS

### 1. Prohibitions

a. The Permittee shall not allow the discharge of non-storm water into permitted storm water outfall(s) unless said discharge is already subject to an NPDES permit.

b. Pollutants removed in the course of treatment or control shall be disposed in a manner that complies with all applicable Department rules and regulations.

### 2. Operational and Management Practices

The permittee shall prepare and implement a Storm Water Pollution Prevention (SWPP) Plan within one year of the effective date of this permit.

a. In the SWPP Plan, the Permittee shall:

(1) Assess the treatment plant site by developing and presenting site drainage maps, materials inventory, and best management operational practices. The plan shall also include a description of all spill or leak sources;

(2) Describe mechanisms and procedures to prevent the contact of sewage sludge, screenings, raw or partially treated wastewater, or any other waste product or pollutant with storm water discharged from the facility;

(3) Provide for daily inspection on workdays of any structures that function to prevent storm water pollution or that remove pollutants from storm water;

(4) Provide for daily inspection of the facility in general to ensure that the SWPP Plan is continually implemented and effective;

(5) Include a Best Management Practices (BMP) Plan that, as a minimum, addresses housekeeping, preventative maintenance, spill prevention and response, and non-storm water discharges;

(6) Describe mechanisms and procedures to provide sediment control sufficient to prevent or control storm water pollution storm water by particles resulting from soil or sediment migration from the site due to significant clearing, grading, or excavation activities;

(7) Designate by position or name the person or persons responsible for the day to day implementation of the SWPP Plan; and

(8) Bear the signature of an individual meeting signatory requirements as defined in ADEM Administrative Code, Rule 335-6-6-.09.

b. The Director or his designee may notify the permittee at any time that the SWPP Plan is deficient and will require correction of the deficiency. The permittee shall correct any SWPP Plan deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

c. Administrative Procedures

(1) A copy of the SWPP Plan shall be maintained at the facility and shall be available for inspection by the Department.

(2) A log of daily inspections required by Provision IV.F.2.a.(3.) of the permit shall be maintained at the facility and shall be made available for inspection by the Department upon request. The log shall contain records of all inspections performed and each daily entry shall be signed by the person performing the inspection.

(3) The Permittee shall provide training for any personnel required to implement the SWPP Plan and shall retain documentation of such training at the facility. Training records for all personnel shall be available for inspection by the Department. Training shall be performed prior to the date implementation is required.

**3. Monitoring Requirements**

a. Storm water discharged through each storm water outfall shall be sampled once per calendar year, using first flush grab samples (FFGS) collected during the first 30 minutes of discharge.

b. The total volume of storm water discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for the storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained in accordance with Provision I.B.5. of this permit. The volume may be measured using flow measurement devices or may be estimated using any method approved in writing by the Department.

## G. SANITARY SEWER OVERFLOW RESPONSE PLAN

1. **SSO Response Plan**

Within 120 days of the effective date of this Permit, the Permittee shall develop a Sanitary Sewer Overflow (SSO) Response Plan to establish timely and effective methods for responding to notifiable sanitary sewer overflows. The SSO Response Plan shall address each of the following:

a. General Information

(1) Approximate population of City/Town, if applicable

(2) Approximate number of customers served by the Permittee

(3) Identification of any subbasins designated by the Permittee, if applicable

(4) Identification of estimated linear feet of sanitary sewers

(5) Number of Pump/Lift Stations in the collection system

b. Responsibility Information

(1) The title(s) and contact information of key position(s) who will coordinate the SSO response, including information for a backup coordinator in the event that the primary SSO coordinator is unavailable. The SSO coordinator is the person responsible for assessing the SSO and initiating a series of response actions based on the type, severity, and destination of the SSO, except for routine SSOs for which the coordinator may pre-approve written procedures. Routine SSOs are those for which the corrective action procedures are generally consistent.

(2) The title(s), and contact information of key position(s) who will respond to SSOs, including information for backup responder(s) in the event the primary responder(s) are unavailable (i.e., position(s) who provide notification to the Department, the public, the county health department, and other affected entities such as public water systems; position(s) responsible for organizing crews for response; position(s) responsible for addressing public inquiries)

c. SSO and Surface Water Assessment

(1) Identification of locations within the collection system at which an SSO is likely to occur (e.g., based upon historical SSOs, lift stations where electricity may be lost, etc.)

(2) A map of the general collection system area, including identification of surface waterbodies and the location(s) of public drinking water source(s). Mapping of all collection system piping, pump stations, etc. is not required; however, if this information is already available, it should be included.

(3) Identification of surface waterbodies within the collection system area which are classified as Swimming according to ADEM Admin. Code chap. 335-6-11. References available to assist in this requirement include the following: http://adem.alabama.gov/alEnviroRegLaws/files/Division6Vol1.pdf and http://gis.adem.alabama.gov/ADEM_Dash/use_class/index.html

(4) Identification of surface waterbodies within the collection system area which are not classified as Swimming as indicated in paragraph c above, but are known locally as areas where swimming occurs or as areas that are heavily recreated

d. Public Reporting of SSOs

(1) Contact information for the public to report an SSO to the Permittee, during both normal and outside of normal business hours (e.g., telephone number, website, email address, etc.)

(2) Information requested from the person reporting an SSO to assist the Permittee in identifying the SSO (e.g., date, time, location, contact information)

(3) Procedures for communication of the SSO report to the appropriate positions for follow-up investigation and response, if necessary

e. Procedures to immediately notify the Department, the county health department, and other affected entities (such as public water systems) upon becoming aware of notifiable SSOs

f. Public Notification Methods for SSOs

(1) A listing of methods that are feasible, as determined by the Permittee, for public notifications (e.g., flyers distributed to nearby residents; signs posted at the location of the SSO, where the SSO enters a water of the state, and/or at a central public location; signs posted at fishing piers, boat launches, parks, swimming waterbodies, etc.; website and/or social media notifications; local print or radio and broadcast media notifications; "opt in" email, text message, or automated phone message notifications)

(i) If signage is a feasible method for public notification, procedures for use and removal of signage (e.g., availability and maintenance of signs, appropriate duration of postings)

(2) Minimum information to be included in public notifications (e.g., identification that an SSO has occurred, date, duration if known, estimated volume if known, location of the SSO by street address or other appropriate method, initial destination of the SSO)

(3) Procedures developed by the Permittee for determining the appropriate public notification method(s) based upon the potential for public exposure to health risks associated with the SSO

g. Standard Procedures shall be developed by the Permittee and shall include, at a minimum

(1) General SSO Response Procedures (e.g., procedures for dispatching staff to assess/correct an SSO; procedures for routine SSO corrective actions such as those for sewer blockages, overflowing manholes, line breakages, pump station power failure, etc.; procedures for disinfection of affected area, if applicable);

(2) Procedures for collection and proper disposal of the SSO, if feasible.

(3) General procedures for coordinating instream water quality monitoring, including, but not limited to, procedures for mobilizing staff, collecting samples, and typical test methods should the Department or the Permittee determine monitoring is appropriate following an SSO. Identification of a contractor who will collect and analyze the sample(s) may be listed in lieu of the procedures.

(4) References to other documents (such as Standard Operating Procedures for SSO Responses) may be acceptable for this section; however, the referenced document shall be identified and shall be reviewed at a frequency of at least that required by the Administrative Procedures Section.

h. Date of the SSO Response Plan, dates of all modifications and/or reviews, the title and signature of the reviewer(s) for each date and the signature of the responsible official or the appropriate designee.

**2. SSO Response Plan Implementation**

Except as otherwise required by this Permit, the Permittee shall fully implement the SSO Response Plan as soon as practicable, but no later than 180 days after the effective date of this Permit.

**3. Department Review of the SSO Response Plan**

a. When requested by the Director or his designee, the Permittee shall make the SSO Response Plan available for review by the Department.

b. Upon review, the Director or his designee may notify the Permittee that the SSO Response Plan is deficient and require modification of the Plan.

c. Within thirty days of receipt of notification, or an alternate timeframe as approved by the Department, the Permittee shall modify any SSO Response Plan deficiency identified by the Director or his designee and shall certify to the Department that the modification has been made.

**4. SSO Response Plan Administrative Procedures**

a. The Permittee shall maintain a copy of the SSO Response Plan at the permitted facility or an alternate location approved by the Department in writing and shall make it available for inspection by the Department.

b. The Permittee shall make a copy of the SSO Response Plan available to the public upon written request within 30 days of such request. The Permittee may redact information which may present security issues, such as location of public water supplies, identification of specific details of vulnerabilities, employee information, etc.

c. The Permittee shall provide training for any personnel required to implement the SSO Response Plan and shall retain at the facility documentation of such training. This documentation shall be available for inspection by the Department. Training shall be provided for existing personnel prior to the date by which implementation of the SSO Response Plan is required and for new personnel as soon as possible. Should significant revisions be made to the SSO Response Plan, training regarding the revisions shall be conducted as soon as possible.

d. The Permittee shall complete a review and evaluation of the SSO Response Plan at least once every three years. Documentation of the SSO Response Plan review and evaluation shall be signed and dated by the responsible official or the appropriate designee as part of the SSO Response Plan.

**FACT SHEET**

**APPLICATION FOR**
**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**
**PERMIT TO DISCHARGE POLLUTANTS TO WATERS OF**
**THE STATE OF ALABAMA**

**Date:** February 23, 2022 **Prepared By:** Michael N. Simmons

**NPDES Permit No.** AL0050423

1. **Name and Address of Applicant:**

   City of Cullman
   Post Office Box 278
   Cullman, AL 35056)

2. **Name and Address of Facility:**

   Cullman WWTP
   1437 Welti Road
   Cullman, AL 35056

3. **Description of Applicant's Type of Facility and/or Activity Generating the Discharge:**

   Discharge Type(s): Surface Water
   Treatment Method(s): Mechanical (WWTP)

4. **Applicant's Receiving Waters**

| Receiving Waters | Classification |
|---|---|
| Eightmile Creek | Fish and Wildlife |

   For the Outfall latitude and longitude see the permit application.

5. **Permit Conditions:**

   See attached Rationale and Draft Permit.

6. **PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS**

   a. **Comment Period**

      The Alabama Department of Environmental Management proposes to issue this NPDES permit subject to the limitations and special conditions outlined above. This determination is tentative.

      Interested persons are invited to submit written comments on the draft permit to the following address:

**Jeffery W. Kitchens, Chief**
**ADEM-Water Division**
**1400 Coliseum Blvd**
**[Mailing Address: Post Office Box 301463; Zip 36130-1463]**
**Montgomery, Alabama 36110-2400**
**(334) 271-7823**
**water-permits@adem.alabama.gov**

All comments received prior to the closure of the public notice period (see public notice for date) will be considered in the formulation of the final determination with regard to this permit.

**b. Public Hearing**

A written request for a public hearing may be filed within the public notice period and must state the nature of the issues proposed to be raised in the hearing. A request for a hearing should be filed with the Department at the following address:

**Jeffery W. Kitchens, Chief**
**ADEM-Water Division**
**1400 Coliseum Blvd**
**[Mailing Address: Post Office Box 301463; Zip 36130-1463]**
**Montgomery, Alabama 36110-2400**
**(334) 271-7823**
**water-permits@adem.alabama.gov**

The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in a permit application or draft permit. The Director may hold a public hearing whenever such a hearing might clarify one or more issues involved in the permit decision. Public notice of such a hearing will be made in accordance with ADEM Admin. Code r. 335-6-6-.21.

**c. Issuance of the Permit**

All comments received during the public comment period shall be considered in making the final permit decision. At the time that any final permit decision is issued, the Department shall prepare a response to comments in accordance with ADEM Admin. Code r. 335-6-6-.21. **The permit record, including the response to comments, will be available to the public via the eFile System** http://app.adem.alabama.gov/eFile/ **or an appointment to review the record may be made by writing the Permits and Services Division at the above address.**

Unless a request for a stay of a permit or permit provision is granted by the Environmental Management Commission, the proposed permit contained in the Director's determination shall be issued and effective, and such issuance will be the final administrative action of the Alabama Department of Environmental Management.

**d. Appeal Procedures**

As allowed under ADEM Admin. Code chap. 335-2-1, any person aggrieved by the Department's final administrative action may file a request for hearing to contest such action.

Such requests should be received by the Environmental Management Commission within thirty days of issuance of the permit. Requests should be filed with the Commission at the following address:

**Alabama Environmental Management Commission**
**1400 Coliseum Blvd**
**[Mailing Address: Post Office Box 301463; Zip 36130-1463]**
**Montgomery, Alabama 36110-2400**

All requests must be in writing and shall contain the information provided in ADEM Admin. Code r. 335-2-1-.04.

**NPDES PERMIT RATIONALE**

NPDES Permit No: **AL0050423** Date: May 2, 2022

Permit Applicant: City of Cullman
P.O. Box 278
Cullman, AL 35056

Location: **Cullman WWTP**
1437 Welti Road
Cullman, AL 35056

| | | |
|---|---|---|
| Draft Permit is: | Initial Issuance: | |
| | Reissuance due to expiration: | **X** |
| | Modification of existing permit: | |
| | Revocation and Reissuance: | |
| Basis for Limitations: | Water Quality Model: | $CBOD_5$, DO, $NH_3$-N |
| | Reissuance with no modification: | $CBOD_5$ % Removal, DO, pH, TSS % Removal |
| | Instream calculation at 7Q10: | 93% |
| | Toxicity based: | TRC |
| | Secondary Treatment Levels: | $CBOD_5$ % Removal, TSS, TSS % Removal |
| | Other (described below): | E. Coli, pH, Total Recoverable Copper, Total Recoverable Mercury |

Design Flow in Million Gallons per Day: 7.0 MGD

Major: Yes

Description of Discharge:

| Feature ID | Description | Receiving Water | WBC | 303(d) | TMDL |
|---|---|---|---|---|---|
| 0012 | Effluent Discharge | Eightmile Creek | Fish and Wildlife | No | Yes |
| 002S – 006S | Stormwater Discharges | Eightmile Creek | Fish and Wildlife | No | Yes |
| 007S - 009S | Stormwater Discharges | Ryan Creek | Fish and Wildlife | No | No |

Discussion:

This is a permit reissuance due to expiration. Due to upgrades at the Cullman WWTP, the design flow has been changed to 7.0 MGD in this reissuance. Loading limits in this reissuance are based on the 4.95 MGD facility design flow. In this reissuance, the Outfalls 007S through 009S receiving stream has been updated to Ryan Creek. The outfall locations have not changed; however, the Permittee has confirmed that these stormwater outfalls discharge to Ryan Creek.

Use of the bypass from the Peak Flow Handling Basin to the U.V. Disinfections in the process flow diagrams included in the permit application is subject to:

1) The bypass provisions in Part II.C.1 and the reporting requirements in Part I.C.2 of this permit
2) The bypass 40 Code of Federal Regulations section 122.41(m) and ADEM Admin. Code R. 335-6-6-.12(m).

This facility was included in the EPA approved 1997 Eightmile Creek/Broglen River Organic Enrichment/Dissolved Oxygen (OE/DO) and Ammonia Total Maximum Daily Load (TMDL). The TMDL set summer and winter limits for

Five Day Carbonaceous Biochemical Oxygen Demand ($CBOD_5$), Dissolved Oxygen (DO) and Total Ammonia-Nitrogen ($NH_3$-N) but the Waste Load Allocation (WLA) model that was completed by ADEM's Water Quality Branch (WQB) on October 28, 2021 has more stringent limits and will be used in this reissuance. The monthly average limits for $CBOD_5$ summer (May – November) and winter (April - December) are 11.0 mg/L and 16.0 mg/L, respectively. The monthly average limits for $NH_3$-N summer (May – November) and winter (April - December) are 1.0 mg/L and 2.5 mg/L, respectively. The daily minimum DO limit is 6.0 mg/L.

The pH daily minimum and daily maximum limits of 6.0 and 8.5 S.U, respectively, were developed to be supportive of the water-use classification of the receiving stream. The Total Residual Chlorine (TRC) limits of 0.012 mg/L (monthly average) and 0.021 mg/L (daily maximum) are based on EPA's recommended water quality values and on the current Toxicity Rationale, which considers the available dilution in the receiving stream. The increased TRC limitations are not backsliding since the increases would result in water quality standards being obtained and the revision is consistent with the Department's anti-degradation policy. In accordance with a letter dated August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes. Monitoring for TRC is only applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "NODI=9" on the monthly DMR.

The Department revised bacteriological criteria in ADEM Administrative Code R.335-6-10-.09. As a result, this permit includes E. coli limits and seasons that are consistent with the revised regulations. The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since Eightmile Creek is classified as Fish & Wildlife, the limits for May – October are 126 col/100ml (monthly average) and 298 col/100ml (daily maximum), while the limits for November – April are 548 col/100ml (monthly average) and 2507 col/100ml (daily maximum).

The Total Suspended Solids (TSS) and TSS % removal limits of 30.0 mg/L monthly average and 85.0%, respectively, are based on the requirements of 40 CFR part 133.102 regarding Secondary Treatment. A minimum percent removal limit of 85.0% is imposed for $CBOD_5$ also in accordance with 40 CFR 133.102 regarding Secondary Treatment.

This permit requires the Permittee to monitor and report the nutrient-related parameters of Total Kjeldahl Nitrogen (TKN), Nitrate plus Nitrite Nitrogen ($NO_2$+$NO_3$-N) and Total Phosphorus (TP). Monitoring for these nutrient related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from this point source, should it be necessary at some later time to impose nutrient limits on this discharge.

Storm water runoff monitoring is being imposed by this permit based on 40 CFR Part 122. The outfalls for storm water runoff monitoring are 002-S, 003-S, 004-S, 005-S, 006-S, 007-S, 008-S and 009-S. However, storm water sampling and reporting for outfalls 003-S through 008-S may be accomplished by sampling outfall 002S, as it is representative of those storm water outfalls. Storm water outfalls 002-S and 009-S are to be monitored annually. The annual monitoring required includes: $CBOD_5$, E. Coli, Flow Rate, $NH_3$-N, $NO_2$+$NO_3$-N, Oil and Grease, pH, TKN, TP, and TSS.

Because this is a major facility (design capacity greater than 1 MGD) treating both municipal and industrial wastewater, chronic toxicity testing with two species (Ceriodaphnia and Pimephales) is being imposed on this permit. Toxicity testing is imposed for both survival and life-cycle impairment (i.e., growth and reproduction). Chronic toxicity at the IWC of 93 percent is required once per year during the month of September. The increased toxicity is not backsliding since the increase would result in water quality standards being obtained and the revision is consistent with the Department's anti-degradation policy.

Because this is a major facility treating both municipal and industrial wastewater, the Department completed a reasonable potential analysis (RPA) of the discharge based on the application data and DMR data. The Department also considers background data upstream of the point of discharge in the RPA; however, there is no available background data for this discharge. The RPA indicates whether pollutants in treated effluent have potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the DMR data submitted by the Permittee, it appears reasonable potential does exist to cause an in-stream water quality criteria exceedance for copper and mercury. Limits for Total Recoverable Copper (Cu) and Total Recoverable Mercury (Hg) will remain in this

reissuance. The limits for Cu are 24.95 µg/L (monthly average) and 37.06 µg/L (maximum daily). The limits for Hg are 0.013 µg/L (monthly average) and 2.56 µg/L (maximum daily). The increased Cu and Hg limits are not backsliding since the increase would result in water quality standards being obtained and the revision is consistent with the Department's anti-degradation policy.

The monitoring frequency for $CBOD_5$, DO, E. Coli, $NH_3$-N, pH, TRC and TSS is three times per week. The monitoring frequency for Cu, TKN, $NO_2$+$NO_3$-N and TP is once per month. $CBOD_5$ % removal and TSS % removal are to be calculated once per month. Mercury is to be monitored quarterly. Flow is to be continuously monitored daily.

Eightmile Creek is a Tier I stream and is not on the most recent 303(d) list. The effluent limits imposed in this permit are more stringent than the 1997 Eightmile Creek/Broglen River OE/DO and Ammonia TMDL. In addition based on DMR data, the stormwater discharges to Eightmile Creek do not indicate significant $CBOD_5$, DO, or $NH_3$-N levels in the stormwater discharges. The Storm Water Pollution Prevention (SWPP) Plan requires implementation of best management operation practices and a Best Management Practices (BMP) Plan and should be consistent with the assumptions in the TMDL.

This Ryan Creek is a Tier II stream and is not on the most recent 303(d) list. There are no Total Daily Maximum Daily Loads (TMDLs) affecting this discharge.

The permit language in Parts I.C.1.c and I.C.2.e has been updated to reflect the electronic discharge monitoring reporting and sanitary sewer overflow reporting requirements due to the transition to the Department's new Alabama Environmental Permitting and Compliance System (AEPACS) from the E2 Reporting System.

ADEM Administrative Rule 335-6-10-.12 requires applicants for new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in which the waters are located. The application submitted by the facility is not for a new or expanded discharge to a Tier II water body, so the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

Prepared by: Michael N. Simmons

# TOXICITY AND DISINFECTION RATIONALE

| | | |
|---|---|---|
| Facility Name: | **Cullman WWTP** | |
| NPDES Permit Number: | **AL0050423** | |
| Receiving Stream: | **Eightmile Creek** | |
| Facility Design Flow ($Q_w$): | **7.000 MGD** | |
| Receiving Stream $7Q_{10}$: | **0.880 cfs** | |
| Receiving Stream $1Q_{10}$: | **0.760 cfs** | |
| Winter Headwater Flow (WHF): | **1.76 cfs** | |
| Summer Temperature for CCC: | **28 deg. Celsius** | |
| Winter Temperature for CCC: | **18 deg. Celsius** | |
| Headwater Background $NH_3$-N Level: | **0.11 mg/l** | |
| Receiving Stream pH: | **7.0 s.u.** | |
| Headwater Background FC Level (summer): | **N./A.** | **(Only applicable for facilities with diffusers.)** |
| (winter) | **N./A.** | |

The Stream Dilution Ration (SDR) is calculated using the 7Q10 for all stream classifications.

$$\text{Stream Dilution Ration (SDR)} = \frac{Qw}{7Q10 + Qw} = \textbf{92.49\%}$$

## AMMONIA TOXICITY LIMITATIONS

Toxicity-based ammonia limits are calculated in accordance with the *Ammonia Toxicity Protocol* and the *General Guidance for Writing Water Quality Based Toxicity Permits.*

If the Limiting Dilution is less than 1%, the waterbody is considered stream-dominated and the CMC applies.
If the Limiting Dilution is greater than 1%, the waterbody is considered effluent-dominated and the CCC applies.

$$\text{Limiting Dilution} = \frac{Q_w}{7Q_{10} + Q_w}$$

= **92.49%** **Effluent-Dominated, CCC Applies**

Criterion Maximum Concentration (CMC): $CMC=0.411/(1+10^{(7.204-pH)}) + 58.4/(1+10^{(pH-7.204)})$

Criterion Continuous Concentration (CCC): $CCC=[0.0577/(1+10^{(7.688-pH)}) + 2.487/(1+10^{(pH-7.688)})] * Min[2.85,1.45*10^{(0.028*(25-T))}]$

| | CMC | CCC |
|---|---|---|
| Allowable Summer Instream $NH_3$-N: | **36.09 mg/l** | **2.48 mg/l** |
| Allowable Winter Instream $NH_3$-N: | **36.09 mg/l** | **4.72 mg/l** |

$$\text{Summer } NH_3\text{-N Toxicity Limit} = \frac{[(\text{Allowable Instream } NH_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater } NH_3\text{-N}) * (7Q_{10})]}{Q_w}$$

= **2.7 mg/l NH3-N at 7Q10**

$$\text{Winter } NH_3\text{-N Toxicity Limit} = \frac{[(\text{Allowable Instream } NH_3\text{-N}) * (WHF + Q_w)] - [(\text{Headwater } NH_3\text{-N}) * (WHF)]}{Q_w}$$

= **5.5 mg/l NH3-N at Winter Flow**

The ammonia limits established in the permit will be the lesser of the DO-based ammonia limit (from the wasteload allocation model) or the toxicity limits calculated above.

| | DO-based NH3-N limit | Toxicity-based NH3-N limit |
|---|---|---|
| Summer | **1.00 mg/l NH3-N** | **2.70 mg/l NH3-N** |
| Winter | **2.50 mg/l NH3-N** | **5.50 mg/l NH3-N** |

**Summer: The DO based limit of 1.00 mg/l NH3-N applies.**
**Winter: The DO based limit of 2.50 mg/l NH3-N applies.**

## TOXICITY TESTING REQUIREMENTS (REFERENCE: MUNICIPAL BRANCH TOXICITY PERMITTING STRATEGY)

The following factors trigger toxicity testing requirements:

1. Facility design flow is equal to or greater than 1.0 MGD (major facility).
2. There are significant industrial contributors (SID permits).

Acute toxicity testing is specified for A&I receiving streams, or for stream dilution ratios of 1% or less.
Chronic toxicity testing is specified for all other situations requiring toxicity testing.

**Chronic toxicity testing is required**

Instream Waste Concentration (IWC) = $\frac{Qw}{7Q10 + Qw}$ = **92.49%** Note: This number will be rounded up for toxicity testing purposes.

## DISINFECTION REQUIREMENTS

Bacteria limits are required, and will be the water quality limit for the receiving stream, except where diffusers are used the limit may be adjusted for the dilution provided by the diffuser.

See the attached Disinfection Guidance for applicable stream standards.

**(Non-coastal limits apply)**
Applicable Stream Classification: **Fish & Wildlife**
Disinfection Type: **Chlorination**
Limit calculation method: **Limits based on meeting stream standards at the point of discharge.**

| | Stream Standard (colonies/100ml) | Effluent Limit (colonies/100ml) |
|---|---|---|
| **E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)** | | |
| Monthly limit as monthly average (November through April): | 548 | **548** |
| Monthly limit as monthly average (May through October): | 126 | **126** |
| Daily Max (November through April): | 2507 | **2507** |
| Daily Max (May through October): | 298 | **298** |
| **Enterococci (applies to Coastal)** | | |
| Monthly limit as geometric mean (November through April): | Not applicable | **Not applicable** |
| Monthly limit as geometric mean (May through October): | Not applicable | **Not applicable** |
| Daily Max (November through April): | Not applicable | **Not applicable** |
| Daily Max (May through October): | Not applicable | **Not applicable** |

## MAXIMUM ALLOWABLE CHLORINATION LIMITS

Toxicity-based chlorine limits are calculated in accordance with the General Guidance for Writing Water Quality Based Toxicity Permits.

Chlorine has been shown to be acutely toxic at 0.019 mg/l and chronically toxic at 0.011 mg/l.

| | | |
|---|---|---|
| Maximum allowable TRC in effluent: | 0.012 mg/l (chronic) | (0.011)/(SDR) |
| Maximum allowable TRC in effluent: | 0.021 mg/l (acute) | (0.019)/(SDR) |

NOTE: A maximum chlorine limit will be imposed such that the instream concentration will not exceed acutely toxic concentrations in A & I streams and chronically toxic concentrations in all other streams, but may not exceed 1.0 mg/l.

Prepared By: Michael Simmons Date: 2/23/2022

# Waste Load Allocation Summary



## REQUEST INFORMATION

Request Number: 3808

From: Draper Rushing | In Branch/Section: Municipal

Date Submitted: 6/30/2021 | Date Required: 7/30/2021 | FUND Code: 605

Date Permit application received by NPDES program: 2/26/2021

Receiving: Eightmile Creek

Previous Stream:

Facility: Cullman WWTP (Name of Discharger-WQ will use to file)

arger Name

River Basin: Black Warrior | 34.165060 (decimal degrees)

*County: Cullman | Outfall Longitude: -86.811060 (decimal degrees)

Permit Number: AL0050423 | Permi: Permit Reissuance

Permit: Active

Type of Discharger: MUNICIPAL

Do other discharges exist that may impact the model? ☑ Yes ☐ No

| If yes, impacting dischargers names. | Impacting dischargers permit numbers. |
|---|---|
| Golden Rod Broilers, Inc | AL0026832 |

Existing Discharge Design Flow: 4.75 MGD

Proposed Discharge Design Flow: 7 MGD

Note: The flow rates given should be those requested for modeling.

Comments Included: ☐ ☑

Information Verified By: MFR | Year File Was Created: | Response ID Number: 1847

Lat/Long Method: GPS

12 Digit HUC Code: 031601090106

Use Classification: F&W

Site Visit Completed? ☑ ☐ | Date of Site Visit: 7/15/2021

Waterbody Impaired? ☑ ☐ | Date of WLA Response: 10/28/2021

Antidegradation ☐ Yes ☑ No | Approved TMDL? ☑ ☐

Waterbody Tier Level: Tier I

Use Support Category: 4A | Approval Date of TMDL: 8/1/1997

# Waste Load Allocation Information

Modeled Reach: 17.28 Miles | Date of: 10/28/2021

Name of Model Us: SWQM | Alloc: 2 Seasons

Model Completed: Matthew Revel | Type of M: Semi-Calibrated

**Allocation Developed** Water Quality Branch

# Waste Load Allocation Summary

Page 2

**Annual Effluent Limits**

Qw MGD

CBOD5

NH3-N

TKN

D.O.

| Conventional Parameters | | | | Other Parameters | | | |
|---|---|---|---|---|---|---|---|
| Qw | 7 MGD | Qw | 7 MGD | Qw | MGD | Qw | MGD |
| Season | Summer | Season | Winter | Season | | Season | |
| From | May | From | Dec | From | | From | |
| Through | Nov | Through | Apr | Through | | Through | |
| CBOD5 | 11 | CBOD5 | 16 | TP | | TP | |
| NH3-N | 1 | NH3-N | 2.5 | TN | | TN | |
| TKN | | TKN | | TSS | | TSS | |
| D.O. | 6 | D.O. | 6 | | | | |

**"Monitor Only" Parameters for Effluent:**

| Parameter | Frequency | Parameter | Frequency |
|---|---|---|---|
| NO2+NO3-N | Monthly | | |
| TKN | Monthly | | |
| TP | Monthly | | |

## Water Quality Characteristics Immediately Upstream of Discharge

| Parameter | Summer | | Winter | |
|---|---|---|---|---|
| CBODu | 2 | mg/l | 2 | mg/l |
| NH3-N | 0.11 | mg/l | 0.11 | mg/l |
| Temperature | 28 | °C | 18 | °C |
| pH | 7 | su | 7 | su |

**Hydrology at Discharge Location**

**Drainage Area Qualifier**

Exact

| | | Method Used to Calculate |
|---|---|---|
| 44.3 | sq mi | |
| 0.88 | cfs | ADEM Estimate w/USGS Gage Data |
| 0.76 | cfs | ADEM Estimate w/USGS Gage Data |
| 1.76 | cfs | ADEM Estimate w/USGS Gage Data |
| 82.9 | cfs | ADEM Estimate w/USGS Gage Data |

**Comments and/or Notations**

Facility Name: **Cullman WWTP**

NPDES No.: **AL0060423**

$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$

| ID | Pollutant | Carcinogen "yes" | Type | Background from upstream source ($C_{d1}$) Daily Max ug/l | Background from upstream source ($C_{d2}$) Monthly Ave. ug/l | Background Instream ($C_s$) Daily Max ug/l | Background Instream ($C_s$) Monthly Ave. ug/l | Enter Max Daily Discharge as reported by Applicant ($C_d$) Max ug/l | Enter Avg Daily Discharge as reported by Applicant ($C_d$) Ave. ug/l | Partition Coefficient (Stream / Lake) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Antimony | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 2 | **Arsenic*,**** | YES | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.574 |
| 3 | Beryllium | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 4 | Cadmium** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.236 |
| 5 | Chromium / Chromium III** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.210 |
| 6 | Chromium / Chromium VI** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 7 | Copper** | | Metals | 0 | 0 | 0 | 0 | 22.4 | 7.94 | 0.388 |
| 8 | Lead** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.206 |
| 9 | Mercury** | | Metals | 0 | 0 | 0 | 0 | 0.018 | 0.00597 | 0.302 |
| 10 | Nickel** | | Metals | 0 | 0 | 0 | 0 | 2.8 | 1.94 | 0.505 |
| 11 | Selenium | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 12 | Silver | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 13 | Thallium | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 14 | Zinc** | | Metals | 0 | 0 | 0 | 0 | 33.8 | 23.97 | 0.330 |
| 15 | Cyanide | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 16 | Total Phenolic Compounds | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 17 | Hardness (As CaCO3) | | Metals | 0 | 0 | 0 | 0 | 129000 | 122500 | - |
| 18 | Acrolein | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 19 | **Acrylonitrile*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 20 | **Aldrin** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 21 | **Benzene*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 22 | **Bromoform*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 23 | **Carbon Tetrachloride*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 24 | **Chlordane** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 25 | Clorobenzene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 26 | **Chlorodibromo-Methane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 27 | Chloroethane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 28 | 2-Chloro-Ethylvinyl Ether | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 29 | **ChloroForm*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 30 | **4,4'-DDD** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 31 | **4,4'-DDE** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 32 | **4,4'-DDT** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 33 | **Dichlorobromo-Methane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 34 | 1, 1-Dichloroethane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 35 | **1, 2-Dichloroethane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 36 | Trans-1, 2-Dichloro-Ethylene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 37 | **1, 1-Dichloroethylene*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 38 | 1, 2-Dichloropropane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 39 | 1, 3-Dichloro-Propylene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 40 | **Dieldrin** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 41 | Ethylbenzene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 42 | Methyl Brorraide | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 43 | Methyl Chloride | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 44 | **Methylene Chloride*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 45 | **1, 1, 2, 2-Tetrachloro-Ethane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 46 | **Tetrachloro-Ethylene*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 47 | Toluene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 48 | **Toxaphene** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 49 | **Tributyltine (TBT)** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 50 | 1, 1, 1-Trichloroethane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 51 | **1, 1, 2-Trichloroethane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 52 | **Trichloroethylene*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 53 | **Vinyl Chloride*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 54 | P-Chloro-M-Cresol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 55 | 2-Chlorophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 56 | 2, 4-Dichlorophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 57 | 2, 4-Dimethylphenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 58 | 4, 6-Dinitro-O-Cresol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 59 | 2, 4-Dinitrophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 60 | **4,6-Dinitro-2-methylophenol** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 61 | **Dioxin (2,3,7,8-TCDD)** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 62 | 2-Nitrophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 63 | 4-Nitrophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 64 | **Pentachlorophenol*** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 65 | Phenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 66 | **2, 4, 6-Trichlorophenol*** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 67 | Acenaphthene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 68 | Acenaphthylene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 69 | Anthracene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 70 | Benzidine | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 71 | **Benzo(A)Anthracene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 72 | **Benzo(A)Pyrene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 73 | 3, 4 Benzo-Fluoranthene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 74 | Benzo(GHI)Perylene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 75 | Benzo(K)Fluoranithene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 76 | Bis (2-Chloroethoxy) Methane | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 77 | **Bis (2-Chloroethyl)-Ether*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 78 | Bis (2-Chloroiso-Propyl) Ether | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 79 | **Bis (2-Ethylhexyl) Phthalate*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 80 | 4-Bromophenyl Phenyl Ether | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 81 | Butyl Benzyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 82 | 2-Chloronaphthalene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 83 | 4-Chlorophenyl Phenyl Ether | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 84 | **Chrysene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 85 | Di-N-Butyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 86 | Di-N-Octyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 87 | **Dibenzo(A,H)Anthracene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 88 | 1, 2-Dichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 89 | 1, 3-Dichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 90 | 1, 4-Dichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 91 | **3, 3-Dichlorobenzidine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 92 | Diethyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 93 | Dimethyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 94 | **2, 4-Dinitrotoluene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 95 | 2, 6-Dinitrotoluene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 96 | 1,2-Diphenylhydrazine | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 97 | **Endosulfan (alpha)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 98 | **Endosulfan (beta)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 99 | **Endosulfan sulfate** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 100 | **Endrin** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 101 | **Endrin Aldeyhide** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 102 | Fluoranthene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 103 | Fluorene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 104 | Heptochlor | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 105 | Heptachlor Epoxide | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 106 | **Hexachlorobenzene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 107 | **Hexachlorobutadiene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 108 | **Hexachlorocyclohexan (alpa)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 109 | **Hexachlorocyclohexan (beta)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 110 | **Hexachlorocyclohexan (gamma)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 111 | HexachlorocycloPentadiene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 112 | Hexachloroethane | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 113 | **Indeno(1, 2, 3-CK)Pyrene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 114 | Isophorone | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 115 | Naphthalene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 116 | Nitrobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 117 | **N-Nitrosodi-N-Propylamine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 118 | **N-Nitrosodi-N-Methylamine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 119 | **N-Nitrosodi-N-Phenylamine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 120 | **PCB-1016** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 121 | **PCB-1221** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 122 | **PCB-1232** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 123 | **PCB-1242** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 124 | **PCB-1248** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 125 | **PCB-1254** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 126 | **PCB-1260** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 127 | Phenanthrene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 128 | Pyrene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 129 | 1, 2, 4-Trichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |

| | |
|---|---|
| 7 | Enter $Q_d$ = wastewater discharge flow from facility (MGD) |
| 10.830603 | $Q_d$ = wastewater discharge flow (cfs) (this value is calculated from the MGD) |
| 1.76 | Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge |
| 0 | Qd2 = background stream flow from upstream source (cfs) |
| 0.88 | Enter 7Q10, $Q_s$ = background stream flow in cfs above point of discharge |
| 0.76 | Enter or estimated, 1Q10, $Q_s$ = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10) |
| 82.9 | Enter Mean Annual Flow, $Q_s$ = background stream flow in cfs above point of discharge |
| 1.76 | Enter 7Q2, $Q_s$ = background stream flow in cfs above point of discharge (For LWF class streams) |
| Enter to Left | Enter $C_s$ = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data) |
| $Q_d$ +Qd2+$Q_s$ | $Q_r$ = resultant in-stream flow, after discharge |
| Calculated on other | $C_r$ = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs) |
| 100 | Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham) |
| 7.00 s.u. | Enter, Background pH above point of discharge |
| YES | Enter, Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals) |

** Using Partition Coefficients

March 7, 2022

Facility Name: Cullman WWTP

NPDES No.: AL0080423

| Freshwater F&W classification. | | | | | | Freshwater Acute (µg/l) $Q_s$ = 1Q10 | | | | | | Freshwater Chronic (µg/l) $Q_s$ = 7Q10 | | | | Human Health Consumption Fish only (µg/l) Carcinogen $Q_s$ = Annual Average Non-Carcinogen $Q_s$ = 7Q10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Pollutant | RP? | Carcinogen yes | Background from upstream source (Cd2) Daily Max | Max Daily Discharge as reported by Applicant ($C_{dmax}$) | Water Quality Criteria ($C_s$) | Draft Permit Limit ($C_{dmax}$) | 20% of Draft Permit Limit | RP? | Background from upstream source (Cd2) Monthly Ave | Avg Daily Discharge as reported by Applicant ($C_{davg}$) | Water Quality Criteria ($C_s$) | Draft Permit Limit ($C_{davg}$) | 20% of Draft Permit Limit | RP? | Water Quality Criteria ($C_s$) | Draft Permit Limit ($C_{davg}$) | 20% of Draft Permit Limit | RP? |
| 1 | Antimony | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 4.04E+02 | 8.07E+01 | No |
| 2 | Arsenic | | YES | 0 | 0 | [illegible] | 633.800 | 126.780 | No | 0 | 0 | [illegible] | 282.567 | 56.511 | No | 3.03E-01 | 2.62E+00 | 5.24E-01 | No |
| 3 | Berylium | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 4 | Cadmium | | | 0 | 0 | [illegible] | 9.132 | 1.826 | No | 0 | 0 | [illegible] | 1.127 | 0.225 | No | - | - | - | - |
| 5 | Chromium/ Chromium III | | | 0 | 0 | [illegible] | 2903.548 | 580.709 | No | 0 | 0 | [illegible] | 361.602 | 78.320 | No | - | - | - | - |
| 6 | Chromium/ Chromium VI | | | 0 | 0 | [illegible] | 17.123 | 3.425 | No | 0 | 0 | [illegible] | 11.894 | 2.379 | No | - | - | - | - |
| 7 | Copper | YES | | 0 | 22.4 | [illegible] | 37.067 | 7.413 | Yes | 0 | 7.94 | [illegible] | 24.957 | 4.991 | Yes | - | - | - | - |
| 8 | Lead | | | 0 | 0 | [illegible] | 335.501 | 67.100 | No | 0 | 0 | [illegible] | 13.209 | 2.642 | No | - | - | - | - |
| 9 | Mercury | YES | | 0 | 0.018 | [illegible] | 2.568 | 0.514 | No | 0 | 0.00697 | 0.012 | 0.013 | 0.003 | Yes | 4.24E-02 | 4.59E-02 | 9.17E-03 | No |
| 10 | Nickel | | | 0 | 2.8 | [illegible] | 982.263 | 196.453 | No | 0 | 1.94 | [illegible] | 111.351 | 22.270 | No | 9.93E+02 | 1.07E+03 | 2.15E+02 | No |
| 11 | Selenium | | | 0 | 0 | [illegible] | 21.403 | 4.281 | No | 0 | 0 | [illegible] | 5.406 | 1.081 | No | [illegible] | 2.63E+03 | 5.26E+02 | No |
| 12 | Silver | | | 0 | 0 | [illegible] | 3.442 | 0.688 | No | 0 | 0 | - | - | - | - | - | - | - | - |
| 13 | Thallium | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.74E-01 | 2.98E-01 | 5.92E-02 | No |
| 14 | Zinc | | | 0 | 33.8 | [illegible] | 380.010 | 76.002 | No | 0 | 23.97 | [illegible] | 387.085 | 77.417 | No | 1.49E+04 | 1.61E+04 | 3.22E+03 | No |
| 15 | Cyanide | | | 0 | 0 | [illegible] | 23.544 | 4.709 | No | 0 | 0 | [illegible] | 5.623 | 1.125 | No | [illegible] | 1.01E+04 | 2.02E+03 | No |
| 16 | Total Phenolic Compounds | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 17 | Hardness (As CaCO3) | | | 0 | 129000 | - | - | - | - | 0 | 122500 | - | - | - | - | - | - | - | - |
| 18 | Acrolein | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 19 | Acrylonitrile | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 5.87E+00 | 1.17E+00 | No |
| 20 | Aldrin | | YES | 0 | 0 | 3.000 | 3.211 | 0.642 | No | 0 | 0 | - | - | - | - | [illegible] | 2.54E-04 | 5.09E-05 | No |
| 21 | Benzene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.34E+02 | 2.68E+01 | No |
| 22 | Bromoform | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 6.82E+02 | 1.36E+02 | No |
| 23 | Carbon Tetrachloride | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 8.28E+00 | 1.66E+00 | No |
| 24 | Chlordane | | YES | 0 | 0 | 2.400 | 2.568 | 0.514 | No | 0 | 0 | 0.0043 | 0.005 | 0.001 | No | [illegible] | 4.09E-03 | 8.18E-04 | No |
| 25 | Clorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 9.80E+02 | 1.96E+02 | No |
| 26 | Chlorodibromo-Methane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 6.41E+01 | 1.28E+01 | No |
| 27 | Chloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 28 | 2-Chloro-Ethylvinyl Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 29 | ChloroForm | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 8.83E+02 | 1.77E+02 | No |
| 30 | 4,4' - DDD | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.57E-03 | 3.14E-04 | No |
| 31 | 4,4' - DDE | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.11E-03 | 2.22E-04 | No |
| 32 | 4,4' - DDT | | YES | 0 | 0 | 1.100 | 1.177 | 0.235 | No | 0 | 0 | 0.001 | 0.001 | 0.000 | No | [illegible] | 1.11E-03 | 2.22E-04 | No |
| 33 | Dichlorobromo-Methane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 8.69E+01 | 1.74E+01 | No |
| 34 | 1, 1-Dichloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 35 | 1, 2-Dichloroethane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.85E+02 | 3.70E+01 | No |
| 36 | Trans-1, 2-Dichloro-Ethylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 6.39E+03 | 1.28E+03 | No |
| 37 | 1, 1-Dichloroethylene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 3.61E+04 | 7.21E+03 | No |
| 38 | 1, 2-Dichloropropane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 9.18E+00 | 1.84E+00 | No |
| 39 | 1, 3-Dichloro-Propylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.33E+01 | 2.66E+00 | No |
| 40 | Dieldrin | | YES | 0 | 0 | 0.240 | 0.257 | 0.051 | No | 0 | 0 | 0.056 | 0.061 | 0.012 | No | [illegible] | 2.70E-04 | 5.41E-05 | No |
| 41 | Ethylbenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.35E+03 | 2.69E+02 | No |
| 42 | Methyl Bromide | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 9.42E+02 | 1.88E+02 | No |
| 43 | Methyl Chloride | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 44 | Methylene Chloride | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.98E+03 | 5.98E+02 | No |
| 45 | 1, 1, 2, 2-Tetrachloro-Ethane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.02E+01 | 4.04E+00 | No |
| 46 | Tetrachloro-Ethylene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.66E+01 | 3.32E+00 | No |
| 47 | Toluene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 9.43E+03 | 1.89E+03 | No |
| 48 | Toxaphene | | YES | 0 | 0 | 0.730 | 0.781 | 0.156 | No | 0 | 0 | 0.0002 | 0.000 | 0.000 | No | [illegible] | 1.40E-03 | 2.80E-04 | No |
| 49 | Tributyltin (TBT) | | YES | 0 | 0 | 0.460 | 0.492 | 0.098 | No | 0 | 0 | 0.072 | 0.078 | 0.016 | No | - | - | - | - |
| 50 | 1, 1, 1-Trichloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 51 | 1, 1, 2-Trichloroethane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 7.87E+01 | 1.57E+01 | No |
| 52 | Trichlorethylene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.51E+02 | 3.02E+01 | No |
| 53 | Vinyl Chloride | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.23E+01 | 2.47E+00 | No |
| 54 | P-Chloro-M-Cresol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 55 | 2-Chlorophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 8.71E+01 | 9.41E+01 | 1.88E+01 | No |
| 56 | 2, 4-Dichlorophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.72E+02 | 1.86E+02 | 3.72E+01 | No |
| 57 | 2, 4-Dimethylphenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 5.38E+02 | 1.08E+02 | No |
| 58 | 4, 6-Dinitro-O-Cresol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 59 | 2, 4-Dinitrophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.11E+03 | 3.38E+03 | 6.73E+02 | No |
| 60 | 4,6-Dinitro-2-methylphenol | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.43E+03 | 2.86E+02 | No |
| 61 | Dioxin (2,3,7,8-TCDD) | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.31E-07 | 4.62E-08 | No |
| 62 | 2-Nitrophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 63 | 4-Nitrophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 64 | Pentachlorophenol | | YES | 0 | 0 | 8.723 | 9.335 | 1.867 | No | 0 | 0 | [illegible] | 7.236 | 1.447 | No | 1.77E+00 | 1.53E+01 | 3.06E+00 | No |
| 65 | Phenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 5.41E+05 | 1.08E+05 | No |
| 66 | 2, 4, 6-Trichlorophenol | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.41E+00 | 1.22E+01 | 2.45E+00 | No |
| 67 | Acenaphthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 6.26E+02 | 1.25E+02 | No |
| 68 | Acenaphthylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 69 | Anthracene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.52E+04 | 5.05E+03 | No |
| 70 | Benzidine | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.25E-04 | 2.51E-05 | No |
| 71 | Benzo(A)Anthracene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 9.22E-02 | 1.84E-02 | No |
| 72 | Benzo(A)Pyrene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 9.22E-02 | 1.84E-02 | No |
| 73 | Benzo(b)fluoranthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 1.15E-02 | 2.30E-03 | No |
| 74 | Benzo(GHI)Perylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 75 | Benzo(K)Fluoranthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 1.15E-02 | 2.30E-03 | No |
| 76 | Bis (2-Chloroethoxy) Methane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 77 | Bis (2-Chloroethyl)-Ether | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.07E-01 | 2.66E+00 | 5.32E-01 | No |
| 78 | Bis (2-Chloroiso-Propyl) Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 4.09E+04 | 8.17E+03 | No |
| 79 | Bis (2-Ethylhexyl) Phthalate | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.11E+01 | 2.22E+00 | No |
| 80 | 4-Bromophenyl Phenyl Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 81 | Butyl Benzyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.22E+03 | 2.44E+02 | No |
| 82 | 2-Chloronaphthalene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 9.24E+02 | 9.99E+02 | 2.00E+02 | No |
| 83 | 4-Chlorophenyl Phenyl Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 84 | Chrysene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 9.22E-02 | 1.84E-02 | No |
| 85 | Di-N-Butyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.83E+03 | 5.67E+02 | No |
| 86 | Di-N-Octyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 87 | Dibenzo(A,H)Anthracene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 9.22E-02 | 1.84E-02 | No |
| 88 | 1, 2-Dichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 8.17E+02 | 1.63E+02 | No |
| 89 | 1, 3-Dichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 6.08E+02 | 1.22E+02 | No |
| 90 | 1, 4-Dichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.22E+02 | 2.43E+01 | No |
| 91 | 3, 3-Dichlorobenzidine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.44E-01 | 2.88E-02 | No |
| 92 | Diethyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.78E+04 | 5.53E+03 | No |
| 93 | Dimethyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 7.01E+05 | 1.40E+05 | No |
| 94 | 2, 4-Dinitrotoluene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.71E+01 | 3.43E+00 | No |
| 95 | 2, 6-Dinitrotoluene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 96 | 1,2-Diphenylhydrazine | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.17E-01 | 1.27E-01 | 2.53E-02 | No |
| 97 | Endosulfan (alpha) | | YES | 0 | 0 | 0.22 | 0.235 | 0.047 | No | 0 | 0 | 0.056 | 0.061 | 0.012 | No | [illegible] | 4.49E+02 | 8.97E+01 | No |
| 98 | Endosulfan (beta) | | YES | 0 | 0 | 0.22 | 0.235 | 0.047 | No | 0 | 0 | 0.056 | 0.061 | 0.012 | No | [illegible] | 4.49E+02 | 8.97E+01 | No |
| 99 | Endosulfan sulfate | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 4.49E+02 | 8.97E+01 | No |
| 100 | Endrin | | YES | 0 | 0 | 0.086 | 0.092 | 0.018 | No | 0 | 0 | 0.036 | 0.039 | 0.008 | No | [illegible] | 3.05E-01 | 6.10E-02 | No |
| 101 | Endrin Aldeyhde | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.78E-01 | 1.53E+00 | 3.05E-01 | No |
| 102 | Fluoranthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 8.78E+01 | 1.76E+01 | No |
| 103 | Fluorene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.11E+03 | 3.38E+03 | 6.73E+02 | No |
| 104 | Heptachlor | | YES | 0 | 0 | 0.52 | 0.556 | 0.111 | No | 0 | 0 | 0.0038 | 0.004 | 0.001 | No | [illegible] | 4.01E-04 | 8.01E-05 | No |
| 105 | Heptachlor Epoxide | | YES | 0 | 0 | 0.52 | 0.556 | 0.111 | No | 0 | 0 | 0.0038 | 0.004 | 0.001 | No | 2.29E-05 | 1.98E-04 | 3.96E-05 | No |
| 106 | Hexachlorobenzene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.45E-03 | 2.90E-04 | No |
| 107 | Hexachlorobutadiene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 9.31E+01 | 1.86E+01 | No |
| 108 | Hexachlorocyclohexan (alpha) | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.47E-02 | 4.93E-03 | No |
| 109 | Hexachlorocyclohexan (beta) | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 8.63E-02 | 1.73E-02 | No |
| 110 | Hexachlorocyclohexan (gamma) | | YES | 0 | 0 | 0.95 | 1.017 | 0.203 | No | 0 | 0 | - | - | - | - | [illegible] | 9.32E+00 | 1.86E+00 | No |
| 111 | HexachlorocycloPentadiene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 8.98E+02 | 1.40E+02 | No |
| 112 | Hexachloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.07E+00 | 4.15E-01 | No |
| 113 | Indeno(1, 2, 3-CK)Pyrene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 9.22E-02 | 1.84E-02 | No |
| 114 | Isophorone | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 6.08E+02 | 1.21E+02 | No |
| 115 | Naphthalene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 116 | Nitrobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 4.04E+02 | 4.36E+02 | 8.73E+01 | No |
| 117 | N-Nitrosodi-N-Propylamine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.55E+00 | 5.11E-01 | No |
| 118 | N-Nitrosodimethylamine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 1.52E+01 | 3.05E+00 | No |
| 119 | N-Nitrosodiphenylamine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 3.03E+01 | 6.06E+00 | No |
| 120 | PCB-1016 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 0.015 | 0.003 | No | [illegible] | 3.24E-04 | 6.47E-05 | No |
| 121 | PCB-1221 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 0.015 | 0.003 | No | [illegible] | 3.24E-04 | 6.47E-05 | No |
| 122 | PCB-1232 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 0.015 | 0.003 | No | [illegible] | 3.24E-04 | 6.47E-05 | No |
| 123 | PCB-1242 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 0.015 | 0.003 | No | [illegible] | 3.24E-04 | 6.47E-05 | No |
| 124 | PCB-1248 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 0.015 | 0.003 | No | [illegible] | 3.24E-04 | 6.47E-05 | No |
| 125 | PCB-1254 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 0.015 | 0.003 | No | [illegible] | 3.24E-04 | 6.47E-05 | No |
| 126 | PCB-1260 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 0.015 | 0.003 | No | [illegible] | 3.24E-04 | 6.47E-05 | No |
| 127 | Phenanthrene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 128 | Pyrene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | [illegible] | 2.52E+03 | 5.05E+02 | No |
| 129 | 1, 2, 4-Trichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 4.09E+01 | 4.43E+01 | 8.85E+00 | No |

# Cullman WWTP (AL0050423)

**Total Recoverable Cooper DMR Data**

| *Monitor Period End Date* | *Monthly Average (µg/l)* | *Daily Maximum (µg/l)* |
|---|---|---|
| 9/30/2016 | 15.90 | 15.90 |
| 10/31/2016 | 11.90 | 11.90 |
| 11/30/2016 | 16.80 | 16.80 |
| 12/31/2016 | 6.34 | 6.34 |
| 1/31/2017 | 14.80 | 14.80 |
| 2/28/2017 | 10.50 | 10.50 |
| 3/31/2017 | 8.00 | 8.00 |
| 4/30/2017 | 8.76 | 8.76 |
| 5/31/2017 | 9.69 | 9.69 |
| 6/30/2017 | 5.92 | 5.92 |
| 7/31/2017 | 8.00 | 8.00 |
| 8/31/2017 | 11.10 | 11.10 |
| 9/30/2017 | 8.05 | 8.05 |
| 10/31/2017 | 9.08 | 9.08 |
| 11/30/2017 | 7.96 | 7.96 |
| 12/31/2017 | 13.80 | 13.80 |
| 1/31/2018 | 9.24 | 9.24 |
| 2/28/2018 | 13.50 | 13.50 |
| 3/31/2018 | 4.44 | 4.44 |
| 4/30/2018 | 12.60 | 12.60 |
| 5/31/2018 | 18.80 | 18.80 |
| 6/30/2018 | 7.18 | 7.18 |
| 7/31/2018 | 5.80 | 5.80 |
| 8/31/2018 | 7.65 | 7.65 |
| 9/30/2018 | 7.50 | 7.50 |
| 10/31/2018 | 2.27 | 2.27 |
| 11/30/2018 | 6.85 | 6.85 |
| 12/31/2018 | 4.38 | 4.38 |
| 1/31/2019 | 13.30 | 13.30 |
| 2/28/2019 | 5.61 | 5.61 |
| 3/31/2019 | 0.00 | 0.00 |
| 4/30/2019 | 7.56 | 7.56 |
| 5/31/2019 | 4.35 | 4.35 |
| 6/30/2019 | 9.23 | 9.23 |
| 7/31/2019 | 2.70 | 2.70 |
| 8/31/2019 | 10.30 | 10.30 |
| 9/30/2019 | 3.40 | 3.40 |
| 10/31/2019 | 4.66 | 4.66 |
| 11/30/2019 | 4.10 | 4.10 |
| 12/31/2019 | 4.23 | 4.23 |
| 1/31/2020 | 8.14 | 8.14 |
| 2/29/2020 | 7.29 | 7.29 |
| 3/31/2020 | 22.40 | 22.40 |
| 4/30/2020 | 0.00 | 0.00 |
| 5/31/2020 | 4.54 | 4.54 |
| 6/30/2020 | 5.40 | 5.40 |
| 7/31/2020 | 0.00 | 0.00 |
| 8/31/2020 | 0.00 | 0.00 |
| 9/30/2020 | 12.20 | 12.20 |
| 10/31/2020 | 5.20 | 5.20 |
| 11/30/2020 | 5.00 | 5.00 |
| 12/31/2020 | 6.50 | 6.50 |
| 1/31/2021 | 10.00 | 10.00 |
| 2/28/2021 | 5.40 | 5.40 |
| 3/31/2021 | 6.30 | 6.30 |
| 4/30/2021 | 4.60 | 4.60 |
| 5/31/2021 | 5.26 | 5.26 |
| 6/30/2021 | 9.94 | 9.94 |
| 7/31/2021 | 6.35 | 6.35 |
| 8/31/2021 | 4.09 | 4.09 |
| 9/30/2021 | 4.38 | 4.38 |
| 10/31/2021 | 5.28 | 5.28 |
| 11/30/2021 | 10.70 | 10.70 |
| 12/31/2021 | 13.50 | 13.50 |
| 1/31/2022 | 8.24 | 8.24 |
| 2/28/2022 | 10.9 | 10.9 |
| Data From EPA Form 2A, Table C | 10.00 | 13.10 |
| Data From EPA Form 2A, Table C | 10.00 | 13.10 |
| Data From EPA Form 2A, Table C | 10.00 | 13.10 |

| | |
|---|---|
| *Monthly Average (µg/l)* | 7.94 |
| *Daily Maximum (µg/l)* | 22.40 |

# Cullman WWTP (AL0050423)

## Total Recoverable Mercury DMR Data

| *Monitor Period End Date* | *Monthly Average (µg/l)* | *Daily Maximum (µg/l)* |
|---|---|---|
| 12/31/2016 | 0.00800 | 0.00800 |
| 3/31/2017 | 0.00600 | 0.00600 |
| 6/30/2017 | 0.00600 | 0.00600 |
| 9/30/2017 | 0.01200 | 0.01200 |
| 12/31/2017 | 0.01000 | 0.01000 |
| 3/31/2018 | 0.01800 | 0.01800 |
| 6/30/2018 | 0.00700 | 0.00700 |
| 9/30/2018 | 0.00800 | 0.00800 |
| 12/31/2018 | 0.00200 | 0.00200 |
| 3/31/2019 | 0.00700 | 0.00700 |
| 6/30/2019 | 0.00200 | 0.00200 |
| 9/30/2019 | 0.00300 | 0.00300 |
| 12/31/2019 | 0.00200 | 0.00200 |
| 3/31/2020 | 0.00452 | 0.00452 |
| 6/30/2020 | 0.00460 | 0.00460 |
| 9/30/2020 | 0.00220 | 0.00220 |
| 12/31/2020 | 0.00376 | 0.00376 |
| 3/31/2021 | 0.00530 | 0.00530 |
| 6/30/2021 | 0.00400 | 0.00400 |
| 9/30/2021 | *D | *D |
| 12/31/2021 | 0.001 | 0.001 |
| Data From EPA Form 2A, Table C | 0.007 | 0.011 |
| Data From EPA Form 2A, Table C | 0.007 | 0.011 |
| Data From EPA Form 2A, Table C | 0.007 | 0.011 |

| | |
|---|---|
| *Monthly Average (µg/l)* | 0.00597 |
| *Daily Maximum (µg/l)* | 0.01800 |

**For the months with *D, analysis was not conducted by the Permittee due to a lost sample**

# Cullman WWTP (AL0050423)

## Raw Data Calculations

| | | |
|---|---|---|
| Cyanide (µg/l) | 0.00 | *January 6, 2022 Test* |
| | 0.00 | *January 20, 2022 Test* |
| | 0.00 | *February 3, 2022 Test* |
| Avg. | 0.00 | |
| Max | 0.00 | |

ST. JOHN
& ASSOCIATES

RECEIVED
FEB 26 2021
MUNICIPAL SECTION

February 22, 2021

Emily Anderson, Chief
Municipal Section, Industrial/Municipal Branch, Water Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, Alabama 36130-2400

Re: Cullman WWTP NPDES Permit No. AL0050423
Renewal Application

Dear Ms. Anderson:

Please find enclosed the City of Cullman's renewal application for the aforementioned NPDES permit. Included in the permit application are the following:

- ADEM Form 188
- EPA Form 2A
- EPA Form 2F
- EPA Form 2S
- Permit application fee, according to Fee Schedule D, in the amount of $17,785
  - Permit Reissuance (Major Municipal): $7,060
  - Receiving Water Modeling: $4,855
  - Seasonal Limits: $4,855
  - Biomonitoring & Toxicity Limits: $1,015

Please let me (david@sjaonline.com) know should you have any questions or need further information.

Sincerely,
ST. JOHN & ASSOCIATES, INC.

David Haynes
Project Engineer

Enc. NPDES Permit Renewal Application – City of Cullman WWTP (AL0050423)

P 256 734 2114 508 FIRST AVE S.E.
F 256 734 2142 CULLMAN, AL 35055 SJAONLINE.COM

**St. John & Associates, Inc.**
**Civil Engineers & Planners**
508 First Avenue, S.E.
Cullman, Alabama 35055
Phone (256) 734-2114
Fax (256) 734-2142
www.sjaonline.com

**LETTER OF TRANSMITTAL**

| | |
|---|---|
| DATE 02/25/21 | JOB NO. 1035 |
| ATTENTION Municipal Section | |
| COMPANY ADEM – Water Division | |
| RE: Cullman WWTP NPDES Permit Application | |

WE ARE SENDING YOU X Attached __ Under separate cover via _____ the following items:

RECEIVED
FEB 26 2021
MUNICIPAL SECTION

___ Shop drawings ___ Prints ___ Plans ___ Samples
___ Copy of letter ___ Change Order ___ Specifications ___ Other _____

| Copies | Date | No. | Description |
|---|---|---|---|
| 1 | 02/22/21 | | Permit Renewal Letter |
| 1 | 01/28/21 | | Check #16015 |
| 1 | 02/24/21 | | Permit Renewal Application |
| | | | |
| | | | |
| | | | |

THESE ARE TRANSMITTED as checked below:

X For approval ___ Approved as submitted ___ Resubmit ___ Copies for approval
___ For your use ___ Approved as noted ___ Submit ___ Copies for distribution
___ As requested ___ Returned for corrections ___ Return ___ Corrected prints
___ For review and comment _____
___ FOR BIDS DUE _____ ___ PRINTS RETURNED AFTER LOAN TO US

REMARKS: _____

COPY TO: _____

SIGNED: Lindsay Lawrence
Lindsay Lawrence

**If enclosures are not as noted, please notify us immediately.**

JEFF ADAMS
SUPERINTENDENT

# WASTEWATER TREATMENT PLANT

CITY OF CULLMAN
STATE OF ALABAMA

PHONE: (256)739-2410
FAX: (256)739-1456

P.O. BOX 278
CULLMAN, AL 35056-0278

RECEIVED
APR 14 2022
MUNICIPAL SECTION

April 14, 2022

Michael N. Simmons
ADEM

**VIA: E-mail**

Re: DMR's and AEPACS Packets

Dear Mr. Simmons:

This letter is to inform you that my last day at the City of Cullman Wastewater Treatment Plant will be April 29, 2022. Jake Calloway will be taking over as the Superintendent.

Our City Engineer, Erica York, will be certifying and submitting our DMR's and other documents. However, all documents still need to be sent to the email address you have on file now. Jake will get with Erica and show her how to log onto the website.

Jake Calloway's email is jcalloway@cullmanal.gov
Erica York's email is eyork@cullmanal.gov

If you have any questions please feel free to call me.

Sincerely,

Jeff Adams

JA/km

# ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
# NPDES INDIVIDUAL PERMIT APPLICATION
## SUPPLEMENTARY INFORMATION FOR PUBLICLY-OWNED TREATMENT WORKS (POTW), OTHER TREATMENT WORKS TREATING DOMESTIC SEWAGE (TWTDS), AND PUBLIC WATER SUPPLY TREATMENT PLANTS

**Instructions:** This form should be used to submit the required supplementary information for an application for an NPDES individual permit for Publicly Owned Treatment Works (POTW) and other Treatment Works Treating Domestic Sewage (TWTDS). The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. **Please type or print legibly in blue or black ink.** Mail the completed application to:

**ADEM-Water Division**
**Municipal Section**
**P O Box 301463**
**Montgomery, AL 36130-1463**

RECEIVED
FEB 26 2021
MUNICIPAL SECTION

### PURPOSE OF THIS APPLICATION

- ☐ Initial Permit Application for New Facility*
- ☐ Modification of Existing Permit
- ☐ Revocation & Reissuance of Existing Permit
- ☐ Initial Permit Application for Existing Facility*
- ☒ Reissuance of Existing Permit

* *An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.*

### SECTION A – GENERAL INFORMATION

1. Facility Name: Cullman WWTP  Facility County: Cullman

   a. Operator Name: City of Cullman

   b. Is the operator identified in A.1.a, the owner of the facility? ☒ Yes ☐ No

   If No, provide the following information:

   Operator Name: _____

   Operator Address (Street or PO Box): P.O. Box 278

   City: Cullman  Alabama  Zip: 35056

   Phone Number: (256) 739-2410  Email Address: jadams@cullmanal.gov

   Operator Status:

   ☐ Public-federal ☒ Public-state ☐ Public-other (please specify): _____
   ☐ Private ☐ Other (please specify): _____

   Describe the operator's scope of responsibility for the facility:

   > Operator is responsible for effective treatment of domestic wastewater in accordance with the permit. This includes daily operations, maintenance and monitoring to ensure safety of human health and the environment.

   c. Name of Permittee* if different than Operator: _____

   **Permittee will be responsible for compliance with the conditions of the permit*

2. NPDES Permit Number: AL 0050423 (Not applicable if initial permit application)

3. Facility Location (Front Gate): Latitude: 34° 9' 44.36" N  Longitude: 86° 48' 46.44" W

4. Responsible Official (as described on last page of this application):

   Name and Title: Woody Jacobs, Mayor

   Address: 204 2nd Avenue NE

   City: Cullman  State: Alabama  Zip: 35055

   Phone Number: (256) 775-7102  Email Address: wjacobs@cullmanal.gov

5. Designated Facility/DMR Contact:

Name: Jeff Adams Title: Superintendent

Phone Number: (256) 739-2410 Email Address: jadams@cullmanal.gov

6. Designated Emergency Contact:

Name: Jake Calloway Title: Lab Manager

Phone Number: (256) 739-2410 Email Address: jcalloway@cullmanal.gov

7. Please complete this section if the Applicant's business entity is a Proprietorship or Limited Liability Company (LLC) with a responsible official not listed in A.4.

Name: _____ Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Email Address: _____

8. Identify all Administrative Complaints, Notices of Violation, Directives, or Administrative Orders, Consent Decrees, or Litigation concerning water pollution or other permit violations, if any against the Applicant within the State of Alabama in the past five years (attach additional sheets if necessary):

| Facility Name | Permit Number | Type of Action | Date of Action |
|---|---|---|---|
| Cullman WWTP | AL0050423 | Complaint | 7/5/18 |
| Cullman WWTP | AL0050423 | Complaint | 10/17/16 |
| | | | |
| | | | |
| | | | |

## SECTION B – WASTEWATER DISCHARGE INFORMATION

1. Attach a process flow schematic of the treatment process, including the size of each unit operation and sample collection locations.

2. Do you share an outfall with another facility? ☐ Yes ☒ No (If no, continue to B.3)

For each shared outfall, provide the following:

| Applicant's Outfall No. | Name of Other Permittee/Facility | NPDES Permit No. | Where is sample collected by Applicant? |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

3. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

| | | | | |
|---|---|---|---|---|
| **Current:** | Flow Metering | ☒ Yes | ☐ No | ☐ N/A |
| | Sampling Equipment | ☒ Yes | ☐ No | ☐ N/A |
| **Planned:** | Flow Metering | ☐ Yes | ☐ No | ☒ N/A |
| | Sampling Equipment | ☐ Yes | ☐ No | ☒ N/A |

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

4. Are any wastewater collection or treatment modifications or expansions planned during the next three years that could alter wastewater volumes or characteristics (Note: Permit Modification may be required)? ☐ Yes ☒ No

If Yes, briefly describe these changes and any potential or anticipated effects on the wastewater quality and quantity: (Attach additional sheets if needed.)

## SECTION C – WASTE STORAGE AND DISPOSAL INFORMATION

Describe the location of all sites used for the storage of solids or liquids that have any potential for accidental discharge to a water of the state, either directly or indirectly via storm sewer, municipal sewer, municipal wastewater treatment plants, or other collection or distribution systems that are located at or operated by the subject existing or proposed NPDES- permitted facility. Indicate the location of any potential release areas and provide a map or detailed narrative description of the areas of concern as an attachment to this application:

| Description of Waste | Description of Storage Location |
|---|---|
| Sludge | Solid Waste Disposal Facility (Permit No. 22-03) |
| | |
| | |

***Indicate any wastes disposed at an off-site treatment facility and any wastes that are disposed on-site**

## SECTION D – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

1. List the existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system (Attach other sheets if necessary)

| Company Name | Description of Industrial Wastewater | Existing or Proposed | Flow (MGD) | Subject to SID Permit? |
|---|---|---|---|---|
| American Trim, LLC | Metal Finishing | Existing | 0.0013 | ■ Yes ☐ No |
| Rehau, Inc. | Fabrication of Plastic Materials | Existing | 0.1800 | ■ Yes ☐ No |
| Reliance Worldwide Corporation | Fabrication of Plastics/Plumbing Fixtures; contact cooling water discharge | Existing | 0.0010 | ■ Yes ☐ No |
| | | | | ☐ Yes ■ No |
| | | | | ☐ Yes ■ No |
| | | | | ☐ Yes ■ No |
| | | | | ☐ Yes ■ No |
| | | | | ☐ Yes ■ No |
| | | | | ☐ Yes ■ No |

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance? ■ Yes ☐ No

If yes, please attach a copy of the ordinance.

## SECTION E – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County? ☐ Yes ☒ No

If yes, complete items E.1 – E.12 below:

| | | Yes | No |
|---|---|---|---|
| 1. | Does the project require new construction? | ☐ | ☐ |
| 2. | Will the project be a source of new air emissions? | ☐ | ☐ |
| 3. | Does the project involve dredging and/or filling of a wetland area or water way? | ☐ | ☐ |
| | If Yes, has the Corps of Engineers (COE) permit been received? | ☐ | ☐ |
| | COE Project No. _____ | | |
| 4. | Does the project involve wetlands and/or submersed grassbeds? | ☐ | ☐ |
| 5. | Are oyster reefs located near the project site? | ☐ | ☐ |
| | If Yes, include a map showing project and discharge location with respect to oyster reefs | | |
| 6. | Does the project involve the site developement, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-1-.02(bb)? | ☐ | ☐ |
| 7. | Does the project involve mitigation of shoreline or coastal area erosion? | ☐ | ☐ |
| 8. | Does the project involve construction on beaches or dune areas? | ☐ | ☐ |
| 9. | Will the project interfere with public access to coastal waters? | ☐ | ☐ |
| 10. | Does the project lie within the 100-year floodplain? | ☐ | ☐ |
| 11. | Does the project involve the registration, sale, use, or application of pesticides? | ☐ | ☐ |
| 12. | Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)? | ☐ | ☐ |
| | If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained? | ☐ | ☐ |

## SECTION F – ANTI-DEGRADATION EVALUATION

In accordance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-10-.04 for anti-degradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? ☐ Yes ■ No
   If yes, complete F.2 below. If no, go to Section G.

2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in F.1? ☐ Yes ■ No

   If yes, do not complete this section.

   If no and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete F.2.A – F.2.F below, ADEM Form 311-Alternatives Analysis, and either ADEM Form 312 or ADEM Form 313- Calculation of Total Annualized Project Costs (Public-Sector or Private-Sector Projects, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever is applicable, must be provided for **each** treatment discharge alternative considered technically viable. ADEM forms can be found on the Department's website at http://adem.alabama.gov/DeptForms/.

   Information required for new or increased discharges to high quality waters:

   A. What environmental or public health problem will the discharger be correcting?

B. How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?

C. How much reduction in employment will the discharger be avoiding?

D. How much additional state or local taxes will the discharger be paying?

E. What public service to the community will the discharger be providing?

F. What economic or social benefit will the discharger be providing to the community?

**SECTION G – EPA Application Forms**

All Applicants must submit certain EPA permit application forms. More than one application form may be required from a POTW or other TWTDS depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department's website at http://adem.alabama.gov/programs/water/waterforms.cnt. The EPA application forms must be submitted in duplicate as follows:

1. Applicants for new or existing discharges of sanitary wastewater from Publicly-Owned Treatment Works (POTW) and Other Treatment Works Treating Domestic Sewage (TWTDS) must submit Form 2A. If the facility design capacity is equal to or greater than 1 MGD, Form 2F is also required.
2. Applicants for new or existing land application of sanitary wastewater must submit Form 2A and Form 2F.
3. Applicants for new and existing discharges of process wastewater from water treatment facilities (i.e. public water supply treatment plants) must submit Form 1 and Form 2C.
4. Applicants that generate sewage sludge, derive a material from sewage sludge, or dispose of sewage sludge must submit Part 2 of Form 2S.

**SECTION H– ENGINEERING REPORT/BMP PLAN REQUIREMENTS**

See ADEM 335-6-6-.08(i) & (j).

## SECTION I– RECEIVING WATERS

| Outfall No. | Receiving Water(s) | 303(d) Segment? | Included in TMDL?* |
|---|---|---|---|
| 0011 | Eightmile Creek | ☐ Yes ☒ No | ☒ Yes ☐ No |
| | | ☐ Yes ☐ No | ☐ Yes ☐ No |
| | | ☐ Yes ☐ No | ☐ Yes ☐ No |

*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

(1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);

(2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);

(3) Requested interim limitations, if applicable;

(4) Date of final compliance with the TMDL limitations; and,

(5) Any other additional information available to support requested compliance schedule.

## SECTION J – APPLICATION CERTIFICATION

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 and imprisonment for knowing violations."*

Signature of Responsible Official: _____ Date Signed: _____

Name: Woody Jacobs Title: Mayor

*If the Responsible Official signing this application is <u>not</u> identified in Section A.4 or A.7, provide the following information:*

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Email Address: _____

**335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.**

(1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:

(a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;

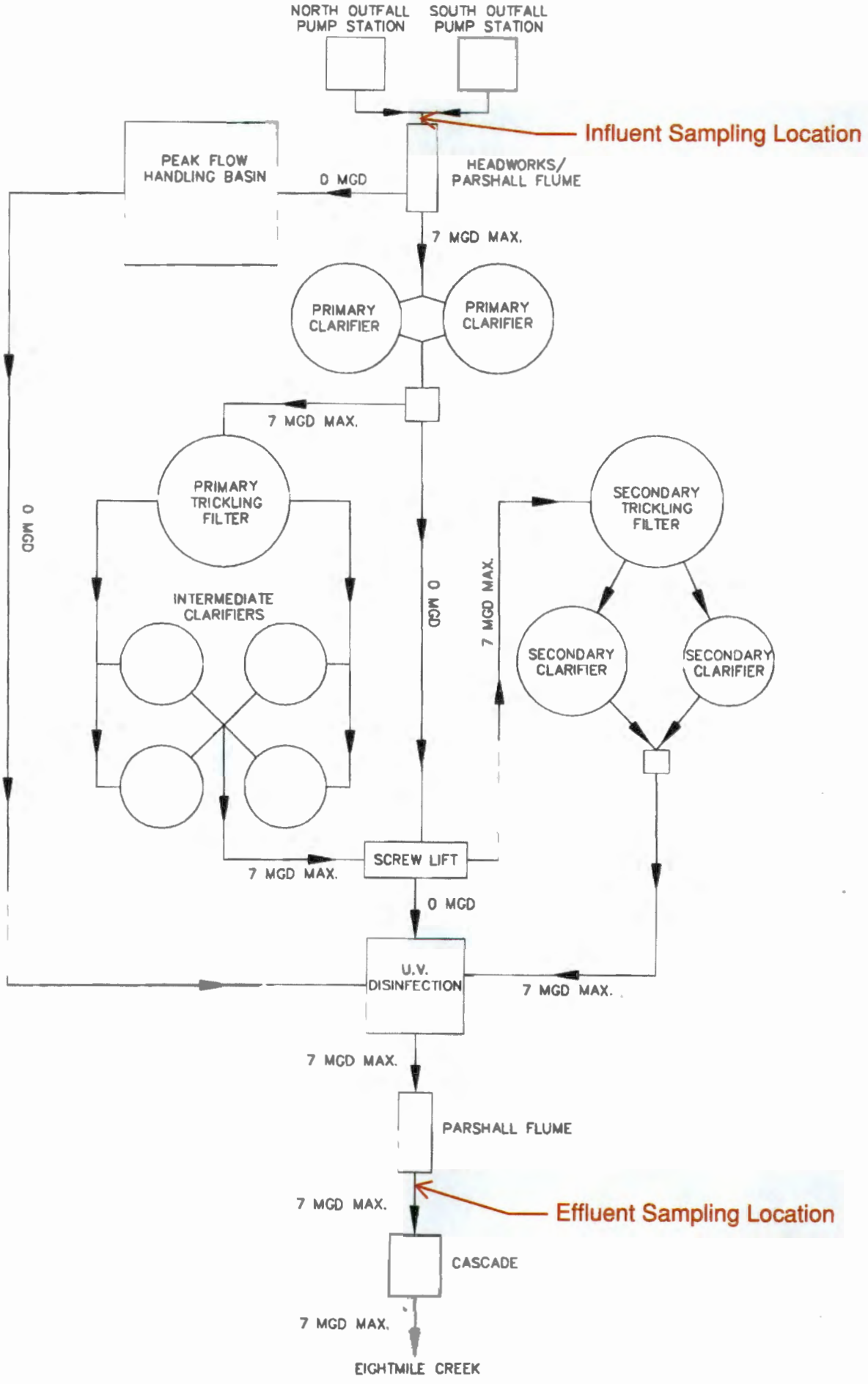
(b) In the case of a partnership, by a general partner;

(c) In the case of a sole proprietorship, by the proprietor; or

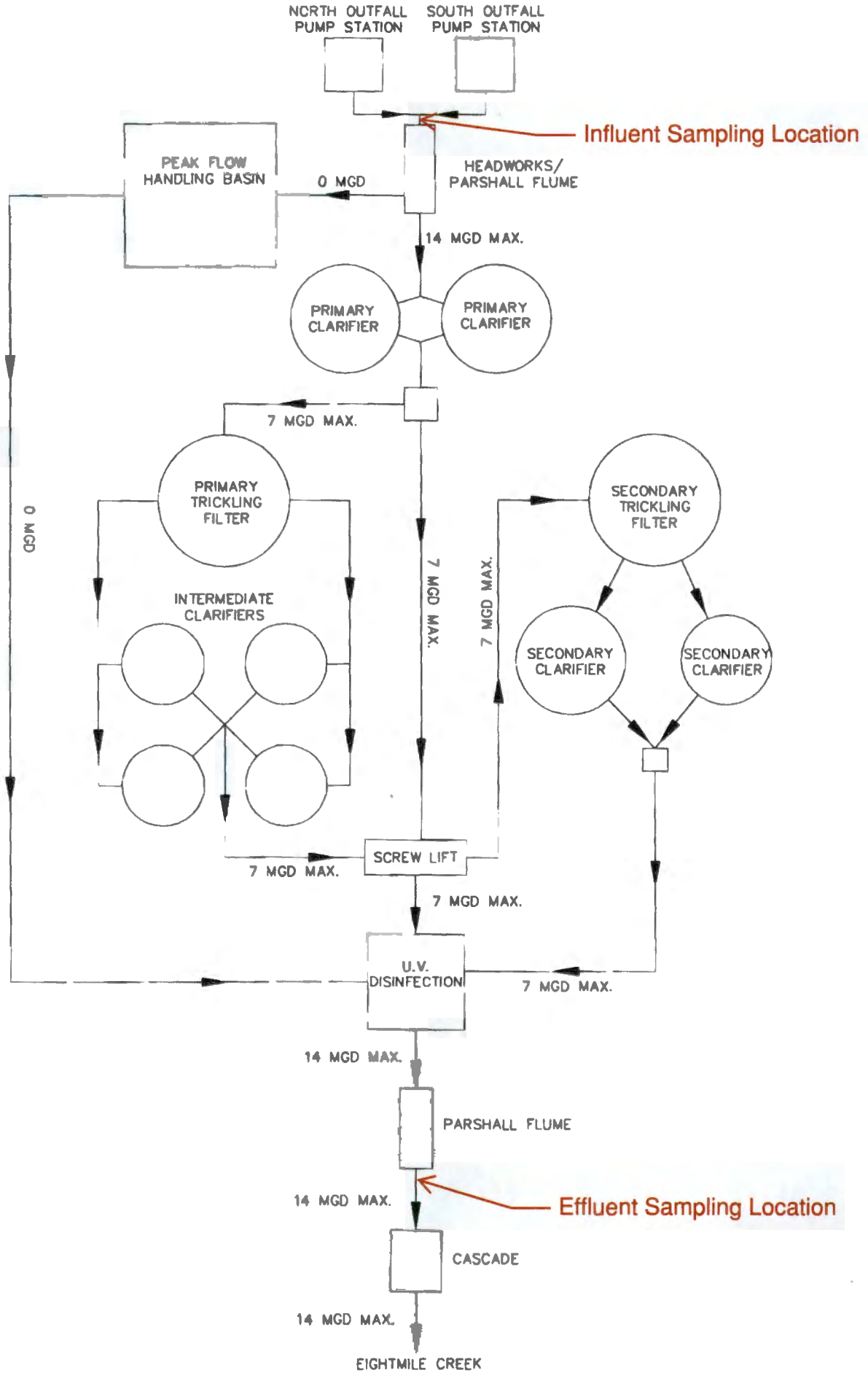
(d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

Form 188
Attachment to Section B, 1
Process Flow Schematic with Sample Collection Locations

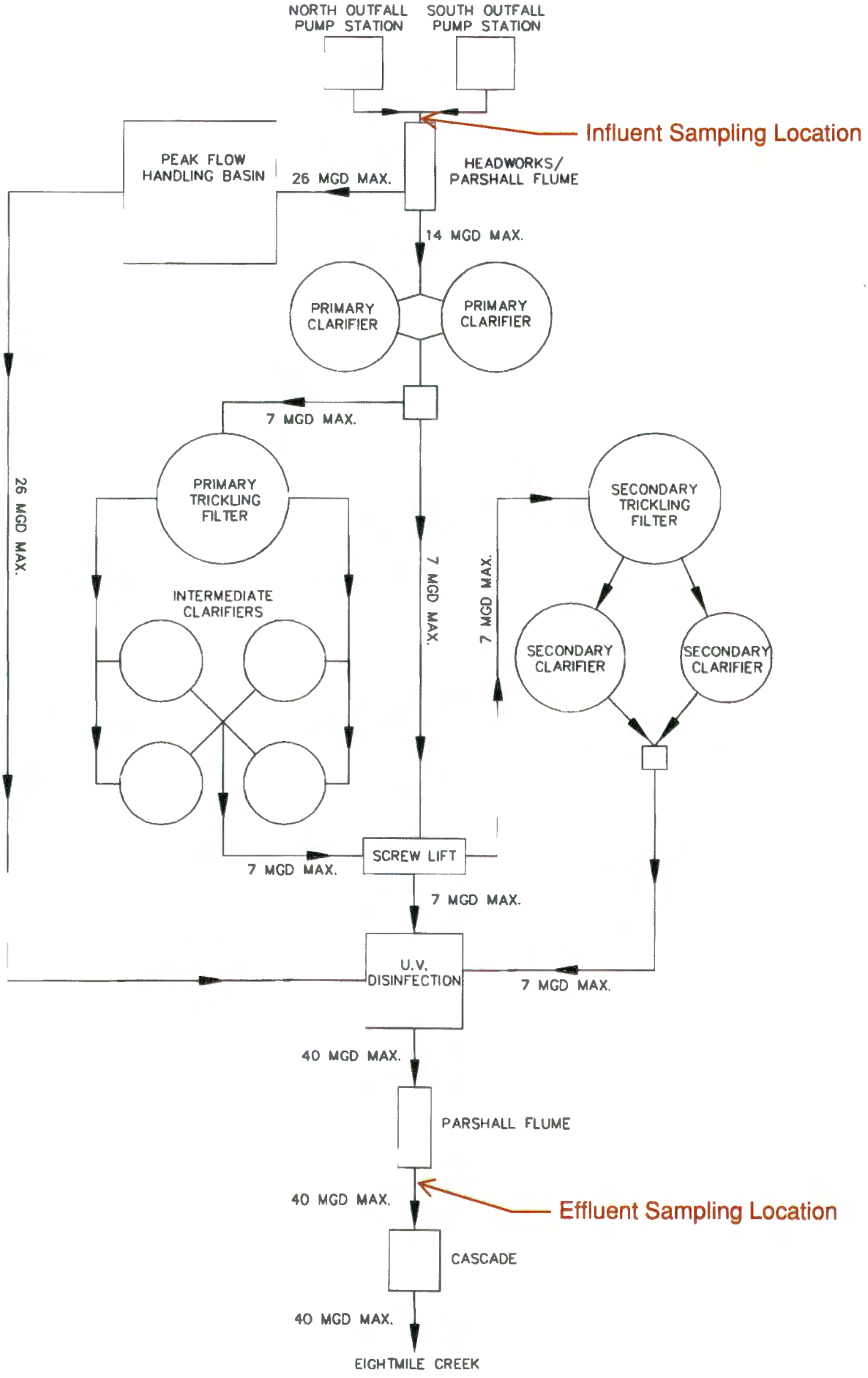
# Cullman WWTP Flow Diagram - Flow < 7 MGD



# Cullman WWTP Flow Diagram - 7 MGD < Flow ≤ 14 MGD



# Cullman WWTP Flow Diagram - Flow ≥ 14 MGD



Form 188
Attachment to Section D, 2
Sewer Use Ordinance including Amendment from Ordinance No. 2021-16

**ORDINANCE NO. 2018 – 43**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CULLMAN, IN THE STATE OF ALABAMA, as follows: Section 1. That existing sections of ordinances of the City of Cullman, Alabama, which are in conflict of this ordinance are repeal including as they appear therein (other than reserved sections), Code of the City of Cullman, Alabama, are hereby repealed and the following is adopted in lieu thereof:

ARTICLE III. WASTEWATER

DIVISION I. GENERALLY

**SECTION I**

1.1 Purpose: This "Wastewater Ordinance establishes requirements applicable to any discharge to the wastewater collection and treatment system owned by the City of Cullman ("Wastewater Collection and Treatment System") and operated by the City of Cullman; sets forth uniform requirements for the protection of the health, safety and welfare of the citizens of Cullman and the environment; enables the City of Cullman to ensure compliance with all applicable State and Federal laws required by the Clean Water Act of 1972, 33 U.S.C. §§ 1251 et seq., including General Pretreatment Regulations (40 CFR, Parts 401 et seq., including amendments) and the laws of the State of Alabama; and authorizes the City of Cullman to take such action and establish such requirements, including restrictions, limitations, fees, charges, assessment of fines and issuance of permits, authorizations, and directives, enter into contracts or other agreements, to implement the provisions of the Wastewater Ordinance.

1.2 Policy: The "Wastewater Ordinance" shall apply to all persons or entities which discharge, contribute, or may discharge or contribute, to the Wastewater Collection and Treatment System, both within and outside the city limits of the City of Cullman. Any person or entity that discharges or contributes wastewater, pollutants, or any materials into the City of Cullman wastewater system, shall comply with all requirements of the Wastewater Ordinance, as well as any permits, authorizations, contracts, directives or orders or other conditions of the City of Cullman issued hereunder, and shall comply with all applicable federal and state law. Except as otherwise provided herein, the City of Cullman or their designees shall administer, implement, and enforce the provisions of the "Wastewater Ordinance". Any powers granted to or duties imposed upon the City of Cullman may be delegated by the City of Cullman personnel.

Persons or entities who discharge wastewater comprised solely of human excrement and/or household gray water to the Wastewater Collection and Treatment System are subject to this Wastewater Ordinance, but are not subject to the provisions of Section _____. Non-domestic Users of the Wastewater Collection and Treatment System are subject to this Wastewater Ordinance and provisions of Section _____.

1.3 Objectives.

1. Provide safe, reliable, and effective wastewater collection and treatment services for the citizens of Cullman and such other persons or entities as the City of Cullman authorizes to discharge to the Wastewater Collection and Treatment System.

2. Protect environmental and community resources, and water quality.

3. Prevent the introduction of pollutants into the City of Cullman wastewater system that will interfere with the operation of the system or negatively affect the quality of the resulting sludge or its marketability.

4. Prevent the introduction of pollutants into the City of Cullman wastewater system which will pass through the system, inadequately treated, into receiving waters or the atmosphere or otherwise be incompatible with the system.

5. Provide for the equitable distribution of the cost of the City of Cullman wastewater collection and treatment relating to Industrial Users of the system amongst those Industrial Users.

6. Protect, in addition to the general public, the City of Cullman personnel who may come into contact with sewage, sludge and effluent in the course of their employment.

7. Ensure the City of Cullman's compliance with its NPDES permit conditions, sludge use and disposal requirements and any other Federal or State laws to which the City of Cullman wastewater system may be subject.

8. Improve the opportunity to recycle and reclaim wastewater and sludges from the system.

9. Protect health, safety, and welfare of the citizens of Cullman and the public investment in the sewer collection and treatment system.

1.4 Definitions. Unless the context specifically indicates otherwise, the following terms and phrases, as used in this ordinance,

shall have the meaning hereinafter designated:

1. Act or "The Act" - The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. 1251, et seq.

2. Approval Authority - The Director of the Alabama Department of Environmental Management.

3. Authorized Representative of Industrial User. An authorized representative of an Industrial user may be:

(a) A principal executive officer of at least the level of vice-president, or higher level of responsibility and delegation, if the Industrial User is a corporation;

(b) A general partner or proprietor if the Industrial User is a partnership or proprietorship, respectively;

(c) A duly authorized representative of the individual designated above if such representative is responsible for the overall operation of the facilities from which the indirect discharge originates.

4. Batch Process: Batch process means a noncontinuous operation in the production, manufacturing, treatment or other non-domestic User operation involving intermittent or discontinuous feed into equipment, and, in general, involves the emptying of the equipment after the batch operation ceases and prior to beginning a new operation. Addition of raw material and withdrawal of product do not occur simultaneously in a batch operation. Examples include processes in which a tank or reactor is filled, the wastewater (or solution) is treated or a chemical solution is prepared, and the tank is emptied. The tank may then be filled and the process repeated. Batch processes are also used to cleanse, stabilize or condition chemical solutions for use in the industrial manufacturing and treatment processes.

5. Biochemical Oxygen Demand - Shall mean the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at 20 centigrade, expressed in parts per million by weight.

6. Building Sewer - Shall mean the extension from the building drain to the sewer lateral at the property line or other lawful place of disposal.

7. Categorical Standards or Categorical Pretreatment Standards – Federal Categorical Pretreatment Standards promulgated at 40 CFR, Parts 403 through 699, including subsequent amendments.

8. City - The City of Cullman, a municipal corporation in Cullman County, Alabama, and specifically the City of Cullman Wastewater Department, which Wastewater Department shall have all administrative powers and responsibilities under all of the provisions of this ordinance.; City Council of the City of Cullman.

9. City Council – City Council of the City of Cullman

10. Consistent Removal – A reductions in the amount of a pollutant or alteration of the nature of the pollutant by the wastewater treatment system to a less toxic or harmless state in the effluent which is achieved by the system when 95 percent of the samples taken when measured according to the procedures set forth in Section 403.7(c)2 of (Title 40 of the Code of Federal Regulations, Part 403) as amended "General Pretreatment Regulations for Existing and New Sources of Pollution" promulgated pursuant to the Act.

11. Chemical Oxygen Demand - Shall mean the quantity of dissolved oxygen required for the chemical oxidation of decomposable matter under aerobic conditions.

12. Composite Sample - Shall be time-composite sample collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals for the total period of discharge not to exceed 24 hours taken by methods prescribed pursuant to 40 C.F.R. Part 136 and contemporary certified laboratory protocols as amended.

13. Contractual Arrangement - Shall mean a contract between a User, Discharger or Contributor and the City of Cullman. A permit issued by the City of Cullman to a User, Discharger, or Contributor is also referred to as a contractual arrangement.

14. Cooling Water - The water discharged from any use such as air conditioning, cooling or refrigeration, or to which the only pollutant added is heat.

15. Constituents - Shall mean the individual or combination of particles, chemicals or conditions, including physical conditions which exist in the waste or wastewater.

16. Direct Discharge - The discharge of treated or untreated wastewater directly to the waters of the State of Alabama.

17. Discharge - The introduction of any substance, material, or pollutant into the City of Cullman's Wastewater Collection and Treatment System by any means whatsoever.

18. Domestic Wastes – Liquid wastes a) from the non-commercial preparation, cooking and handling of food, or b) containing human excrement and similar matter from the sanitary conveniences of dwellings, commercial building, industrial facilities, and institutions.

19. Domestic User – Any user not covered under the definition of "Industrial User".

20. Effluent - Shall mean the discharge from a reservoir, basin, treatment process or treatment facility, or other facility, and includes all wastewater discharged to or from the City of Cullman's Wastewater Collection and Treatment System.

21. Effluent Limits - Pollutant limitations developed by a POTW for each industrial plant discharging to the POTW system. At a minimum, all industrial facilities are required to comply with the provisions of this Wastewater Ordinance and any applicable state or federal laws or discharge standards. The industries covered by Categorical Pretreatment Standards must also comply with all discharge limitations, prohibitions, conditions and provisions of this Wastewater Ordinance, including the provisions of _____ Non-Domestic Sewer Use Ordinance which may be more stringent than and in addition to the Act, National Pretreatment Regulations, Categorical Pretreatment Standards, or the Alabama Water Pollution Control Act. The City of Cullman or City Council of the City of Cullman may also establish Local Limits more stringent than or in addition to any federal, state, or other standards for some or all of its industrial Users.

22. Environmental Protection Agency - A regulatory agency established by the U. S. Congress to administer the nation's environmental laws; the U. S. Environmental Protection Agency, or where appropriate the term may also be used as designation for the Administrator or other duly authorized official of said agency.

23. Garbage – The solid wastes from the domestic and commercial preparation, cooking and dispensing of food, and from the handling, storage and sale of produce.

24. Grab Sample - A sample that is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time and taken by methods prescribed pursuant to 40 C.F.R. Part 136 and contemporary certified laboratory protocols.

25. Holding Tank Waste - Any waste from holding tanks such as vessels, chemical toilets, campers, trailers, septic tanks, and vacuum-pump tank trucks.

26. Indirect Discharge - The discharge or the introduction of non-domestic pollutants from any source regulated under Section 307(b) or (c) of the Act, (33 U.S.C. 1317), into the City of Cullman's Wastewater Collection and Treatment System (including holding tank waste discharged into the system).

27. Industrial Plant - Shall mean any plant producing liquid waste, with or without bearing suspended solids, required to be discharged either with or without pretreatment, into the City of Cullman's wastewater system.

28. Industrial Plant Site - Shall mean a parcel of land occupied by a facility that discharges industrial waste.

29. Industrial User – Source of Indirect Discharge which does not constitute a "Discharge of Pollutants" under regulations issued pursuant to Section 402, of the Act. (33 U.S.C. 1342).

30. Industrial Wastewater - Non-domestic wastewater originating from a non-residential source

31. Inorganic – Compounds that do not have the structure or organization that is characteristic of living bodies and do not contain hydrocarbons or their derivatives.

32. Interference or Interfere – A discharge which, alone or in conjunction with a discharge or discharges from other sources, inhibits or disrupts the City of Cullman's treatment processes or operations or its sludge processes, use or disposal, or may contribute to a violation of any requirement of the City of Cullman's Permit or causes damage to any part of the collection, treatment, and disposal system; and includes prevention of sewage sludge use or disposal. The term includes prevention of sewage sludge use or disposal by the City of Cullman in accordance with 405 of the Act, (33 U.S.C. 1345) or any Solid Waste Disposal Act (SWDA), the Clean Air Act, the Toxic Substances Control Act, applicable to the method of disposal or use employed by the City of Cullman.

33. Lateral Sewer – A sewer that discharges into a collecting sewer or other sewers and has no other common sewer tributary to it.

34. Local Limit – Shall have the same meaning as set forth in the National Pretreatment Regulations

35. National Prohibitive Discharge Standard or Prohibitive Discharge Standard – Any regulation developed under the authority of 307 (b) of the Act and 40 CFR, Section 403.5.

36. National Pollution Discharge Elimination System or NPDES Permit – A permit issued pursuant to Section 402 of the Act (33 U.S.C. 1342).

37. National Pretreatment Regulations – Shall mean the regulations promulgated at 40 CFR, Part401 through 699. Federal Categorical Pretreatment Standards are included in the National Pretreatment Regulations.

38. New Source – Any source, the construction of which is commenced after the publication of proposed regulations prescribing a Section 307(c)(33 U.S.C. 1342) Categorical Pretreatment Standard which will be applicable to such source, if such standard is thereafter promulgated within 120 days of such proposal in the Federal Register. Where the standard is promulgated later that 120 days after proposal, a new source means any source, the construction of which is commenced after the date of promulgation of the standard.

39. Normal Operations – Shall mean the operational characteristics as described in any permit or authorization issued by the City of Cullman and specifically includes but is not limited to flow, volume, management practices or limitations. In the absence of a permit or authorization, operational characteristics as submitted by the User in any application, industrial waste survey, or other documentation provided to the City of Cullman.

40. Odor – The discharge of any substances from wastewater which results in complaints from surrounding residents or creates a public nuisance.

41. Organic – Pertaining to or derived from living plants or animals, contains carbon and is characterized by a systematic arrangement of parts.

42. Pass Through - a discharge which exits the wastewater collection and treatment system into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of City of Cullman's NPDES Permit, including an increase in the magnitude or duration of a violation.

43. Person or Owner – Shall mean any individual, partnership, co-partnership, firm, company, corporation, association, joint-stock company, trust, estate, governmental entity, or any other legal entity, or their legal representative agents or assigns. This definition shall include all Federal, State and local governmental entities. The masculine gender shall include the feminine, the singular shall include the plural where indicated by the context.

44. pH – Shall mean the reciprocal of the weight of hydrogen ions in grams per liter of solution.

45. Pollution – The man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water.

46. Pollutant – Shall mean any dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical constituent or waste, biological materials, radioactive material, heat, wrecked or discharged equipment, rock, sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water, and includes certain characteristics of wastewater (e.g. pH, temperature, TSS, turbidity, color, GOD, COD, toxicity, odor).

47. Pollution Discharge Elimination System Permit - A permit issued pursuant to Section 402 of the Act (33 U.S.C. § 1342).

48. Non-domestic Pollutant or Non-Domestic Wastewater - Any substance other than human excrement or household gray water.

49. Ordinance – when used means "Wastewater Ordinance" of the City of Cullman.

50. Pretreatment or Treatment – Shall mean the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to or in lieu of discharging or otherwise introducing such pollutants into the City of Cullman's wastewater treatment facilities. Pretreatment shall also mean that biological, physical or chemical treatment given to waste are those processes utilized for this purpose before discharge into the sanitary sewer system by any means except as prohibited by 40 C.F.R. Section 403.6(d), which includes a prohibition on dilution. Appropriate pretreatment technology includes control equipment for protection against surges or slug loadings that might interfere with or otherwise be incompatible with the POTW. However, where wastewater from a regulated process is mixed in an equalization facility with unregulated wastewater or with wastewater from another regulated process, the effluent from the equalization facility must meet an adjusted pretreatment limit calculated in accordance with 40 C.F.R. Section 403.6(e).

51. Pretreatment Coordinator – City of Cullman personnel who conduct inspections of industrial pretreatment facilities and food service facilities to ensure protection of the environment and compliance with this Ordinance and all pretreatment regulations.

52. Property Owner – One or more persons, _____, partnership or corporation or organization as listed by the Revenue Department as assessing owner of the real estate.

53. Publicly Owned Treatment Works (POTW) - means a treatment works as defined by Section 212 of the Act, which is owned by a State or municipality (as defined by Section 502(4) of the Act). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in Section 502(4) of the Act, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works. The City's wastewater collection and treatment system is a POTW and when the term POTW is used it shall refer to the City of Cullman's POTW, which is a part of the City's Wastewater Collection and Treatment System.

54. Sewer or Sanitary Sewer – Shall mean the system of point sources, pipes, conduits, manholes, sewers, and similar structures which transmit wastewater, pollutants, or other materials to the City's POTW. Sewers are a part of the City of Cullman's Wastewater Collection System.

55. POTW Treatment Plant – That portion of the POTW designed to provide treatment to wastewater.

56. Qualified Professional – An Engineer registered to practice engineering in the State of Alabama.

57. Receiving Waters – A natural water course or body of water into which treated or untreated sewage is discharged.

58. Shall is mandatory. May is permissive.

59. Significant User – Any User of the City's POTW who (a) has a discharge flow of 25,000 gallons or more per average work day, or (b) has a flow or organic load greater than 5% of the flow or organic load in the City's POTW, or (c) contributes toxic pollutants as defined pursuant to Section 307 of the Act of Alabama Statutes and Rules, or (d) is found by the City Approval Authority, Alabama Department of Environmental Management, or the United States Environmental Protection Agency to have significant impact either singly or in combination with other contributing industries, on the Wastewater Treatment System, the quality of sludge, the system's effluent quality or air emissions generated by the POTW.

60. Slug Load – Any pollutant (including BOD) released in a discharge at a flow or concentration that will cause a violation of any discharge standard, limitation, or condition of this Ordinance or create any difficulty or cause the use of additional treatment, equipment, or resources at the POTW for treatment.

61. Suspended Solids - Shall mean solids that either float on the surface of, or that are in suspension in water, sewage or other liquids and which are removable by laboratory filtering.

62. Standard Industrial Classification (SIC) – A classification pursuant to the Standard Industrial Classification Manual issued by the Executive Office of the President, Office of Management and Budget, 1972.

63. Standard Methods – "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health Association, American Water Works, Association and the Water Pollution Control Federation latest edition.

64. State – State of Alabama.

65. Storm Water – Any flow occurring during or following any form of natural precipitation and resulting therefrom.

66. Surcharge - Shall mean an additional service charge assessed to persons or entities discharging to the City of Cullman's Wastewater Collection and Treatment System whose waste characteristics exceed levels specified in _____, Non-Domestic Sewer Use Ordinance.

67. Toxic Pollutant - Any pollutant or combination of pollutants listed as toxic in regulations promulgated by the Administrator of the Environmental Protection Agency under the provision of CWA 307(a) or other Acts.

68. User – Any person who contributes, causes or permits the contribution or discharge of non-domestic wastewater in the City's Wastewater Collection and Treatment System.

69. Treatment Plant – Any device or system used in collection, storage, treatment, recycling and/or reclamation of wastewater.

70. Wastewater or Wastes - Shall mean the used water and water-carried solids or associated physical and chemical conditions of water that flow into the City's Wastewater Collection and Treatment System, and includes but is not limited to all liquid and water-carried industrial wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, businesses, pretreatment facilities, and institutions whether treated or untreated and which are contributed to the City's wastewater collection and treatment system. Hazardous wastes under the Resource Conservation and Recovery Act (RCRA) or state law are prohibited from discharge to the City's wastewater collection and treatment system and are not wastewater or waste

under this ordinance.

71. Wastewater Collection and Treatment System – Shall mean the system of point sources, pipes, conduits, manholes, sewers, and similar structures which transmit wastewater, pollutants, or other materials to the City's POTW, and includes the POTW and any facilities and equipment used in the City's operation of the POTW and collection system.

72. Watercourse – A channel in which a flow of water occurs, either continuously or intermittently.

73. Water Closet - Shall have the meaning set forth in Section 7-86 of the Code of the City of Cullman.

74. Waters of the State - All streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, reservoir, aquifers, irrigation systems, drainage systems and all other bodies or accumulations of water, surface or underground, natural or artificial, public or private, which are contained within, flow through, or border upon the State or any portion thereof.

75. Wastewater Ordinance - Shall mean the provisions of this ordinance (Paragraph Number ___) of the Cullman Code of Ordinance.

76. Wastewater Discharge Permit – As set forth in section four of this ordinance.

Section 23-59. Abbreviations.
The following abbreviations shall have the designated meanings

| | |
|---|---|
| 1. ADEM | Alabama Department of Environmental Management |
| 2. ASTM | American Society for Testing and Materials |
| 3. BOD | Biochemical Oxygen Demand |
| 4. CFR | Code of Federal Regulations |
| 5. COD | Chemical Oxygen Demand |
| 6. CERCLA | Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. §§ 9601 et seq. |
| 7. EPA | Environmental Protection Agency |
| 8. l | Liter |
| 9. Mg | Milligrams |
| 10. MGD | Million gallons per day |
| 11. mg/l | Milligrams per liter, also known as parts per liter |
| 12. NPDES | National Pollutant Discharge Elimination System |
| 13. O/G | Oil and grease |
| 14. POTW | Publicly Owned Treatment Works |
| 15. PPM | Parts per million |
| 16. RCRA | Resource Conservation and Recovery Act, 42 U.S.C. §§ 6901 et seq |
| 17. SIC | Standard Industrial Classification |
| 18. SID | State Indirect Discharge Permit |
| 19. SWDA | Solid Waste Disposal Act, 42 U.S.C. 6901, et seq. |
| 20. TSS | Total Suspended Solids |
| 21. TTO | Total Toxic Organics |
| 22. USC | United States Code |
| 23. WPCF | Water Pollution Control Federation |
| 24. °F | Degrees Fahrenheit |
| 25. °C | Degrees Celsius |

[Note: Sections 23-60--23-67 Reserved]

SECTION II – ALTERNATIVE CONNECTION PROCEDURE

2.1 Connection Required By Council Resolution _____ of Sewer By Property Owner—When Permitted – Whenever in the judgment of the City Council it shall be deemed necessary or expedient for the protection of the public health to require the owner of any property in the city located within four hundred (400) feet of a sanitary sewer to install and connect water closets with the sewerage system of the City, the City Council may in addition to the present regulations and in lieu thereof adopt a resolution declaring that in the opinion of the City Council it is necessary or expedient that the work be done, which resolution shall give the name of the owner of the lot, the lot and block number, or the survey in which the same is situated, and shall describe the location at which the water closet shall be installed and shall describe the character of the work and the quality of the closet, including necessary water pipe lines to be installed and shall set forth the estimated cost of providing and installing same. The resolution shall also fix a day for the hearing of the property owner, which day shall be not less than twenty (20) days after the adoption of the resolution. (Code 1956, § 12 – 26) Property owner shall pay for meter. Property owner shall be responsible for all materials and labor required to hook property to sewer including that portion between existing sewer line and property line. Should the connection require pump, property owner shall pay for the pump station and pump.

2.2 Same—Notice and service – Upon the adoption of the resolution authorized by the preceding section the city clerk shall issue a notice to the property owner named in the said resolution, which notice shall set forth the resolution so adopted, and shall notify the property owner to appear, either in person or by counsel, before the city council on the day named in said resolution to show cause, if any there be, why he should not peremptorily be required to forthwith construct a water closet at the place mentioned in the resolution at his own expense, which notice shall be served upon the property owner by the chief of police or any police officer by leaving a copy of the notice with said property owner, and it shall be the duty of the police officer making the service to make return in writing upon the notice of the city clerk, which notice shall be served at least ten (10) days before the day fixed in the resolution for hearing the same. (Code 1956, § 12-27)

2.3 Same—Hearing of objections – Upon the day fixed in the resolution authorized by section 2.1 of this division for hearing the property owner's objections, the city council shall proceed to hear any objections or defenses which the property owner may make in writing and hear all evidence which the property owner may offer in support of any protest or objection so made; provided, that if the property owner shall fail to protest in writing, which protest shall be filed with the city clerk or the council, then on the hearing of the resolution, he shall be held to have consented to the making of the connections in the manner provided in this division. Upon hearing the objections and resolution, the city council shall have the power to peremptorily order by resolution the property owner to make such connections within ten (10) days thereafter. (Code 1956, § 12 -28)

2.4 Failure to comply; authority of City – In case of a failure to install or connect the water closet with the sewer system of the City within ten (10) days after the peremptory resolution ordering the same shall have been adopted, it shall be the duty of the building department director to install on the premises of the property owner a proper water closet, with the necessary water supply line and connect the same with the sewage system of the city at the expense of the property owner, the closet thereof to be a lien upon the property in favor of the City to be collected as other debts are collected or liens enforced; provided, that the closet and water pipe lines installed shall be of the kind designated in the original resolution provided for in Chapter 7, Article IV of this Code, and the costs of such installation shall not exceed the sum estimated in the original resolution; provided further, that the amount of such costs shall bear interest at the rate of eight (8) percent from the day of completion and installation as certified by the mayor, as provided in this division. (Code 1956, § 12-28:1)

2.5 Statement of Costs – Upon the completion of the installation and connection of the water closet and water pipe line, the mayor shall prepare, or cause to be prepared, a statement in writing setting forth the name of the owner of the property and a description of the property on which such improvement has been made, together with the cost of the such sanitary connection and installation of such closet and water pipe line, which statement shall be signed by the mayor in his official capacity and shall be filed with the probate judge of the county for record in the mortgage records of the county, and the filing of such statement shall operate as notice of the existence of the lien from the date of its filing. Code 1956, § 12-29)

2.6 Assessment for sewer connection—Payment - Any person whose property shall have been assessed under the provisions of this division shall have the right to pay the assessment in cash at any time within thirty (30) days after the amount of such assessment shall haven ascertained by resolution adopted by the City Council, notice of which shall be given to the property owner by registered mail at his last known address; provided, that the property owner shall also have the right in lieu of paying the assessment in cash, as provided in this section, to pay the same in monthly installments, each installment to equal one-twentieth of the principal amount of the assessment, and at the time of paying such monthly installment the property owner shall also pay the interest on the unpaid balance form the date of the last preceding payment to the date upon which the monthly installment is paid; provided further, that if such property owner shall fail to pay the principal in cash within thirty (30) days after such notice that the assessment has been ascertained and fixed or shall fail to pay any monthly installments when due and the same shall remain in default for thirty (30) days, then at the option of the city the entire amount shall become due and payable, and it shall be the duty of the city clerk to proceed to collect the same and enforce the payment in any court having jurisdiction or by sale, as proved by law, for foreclosing street improvement assessment liens. (Code 1956, § 12-30)

2.7 Same—Protest of property owner – The notice of lien provided for in section 23-82 of this division shall be filed for record in the office of the probate judge of the county until the property owner shall have been given notice by registered mail, addressed to his last known address, of the fact of the completion of such installation and the amount of the assessment as provided in section 23-83 of this division. At any time within five (5) days after such notice shall have been deposited in the post office of the city, in accordance with the provisions of this section, such property owner shall have the right to file in writing with the city clerk any protest or objections against the material used, the manner in which the work is constructed or the cost of such assessment, and it shall be the duty of the city council at its next regular meeting ,after the filing of such protest, to hear the protest and any evidence which the property owner may offer, and the council may either confirm, modify or repeal the resolution fixing the assessment. If such property owner fails to protest within the time and manner stated in this section, he shall be held to have consented to such assessment, and the statement in writing provided for in section 23-82 of this division shall thereupon immediately be filed in the office of the probate judge. (Code 1956, § 12-31)

2.8 Same—Appeal from action of council – Any property owner feeling himself aggrieved by the action of the council in overruling any protest filed under the preceding section, either in whole or in part, may, within two (2) days after such assessment shall have been finally fixed, appeal to the circuit court of the county or such other inferior court as may hereafter be created, upon

giving bond in twice the amount of the assessment with two (2) good and sufficient sureties, conditioned to prosecute such appeal and to pay to the city such judgment as the court may render upon the hearing of such appeal. Upon the appeal being taken it shall be the duty of the city clerk to forthwith send to the court to which the appeal is taken a transcript of the proceedings, including the protest and bond, and the cause shall be set for immediate hearing on the merits by the court which shall render judgment accordingly. (Code 1956, § 12-32)

2.9 Connection by City; request by owner – The wastewater department is authorized to make sewer connections to the sewer system of the city for owners when requested to do so where connection thereto is required by the provisions of this division, and in such instance, to make a reasonable charge for such service and to require a deposit sufficient to cover the cost thereof prior to the performance of the work within the city limits only. Should the owner request a flow meter said meter shall only be calibrated by the City or a certified third party for calibration.

2.10 Sewer connections deemed accessible – The provisions of this division with reference to sewer connections shall be deemed to apply only where connection with a public sewer is or becomes reasonably accessible and connection shall be deemed to be reasonably accessible when such public sewers are within a distance of four hundred (400) feet of any outside line of the lot upon which such dwelling or other building is located; provided, such sewer may be reached without crossing the property of another; provided further, that when such property or premises is not subdivided into lots and so designated on available surveys or maps or record, then the distance specified above shall be deemed to apply to the nearest portion of such dwellings or other buildings. (Code 1956, § 12-22)

## SECTION III – RATES, FEES, AND CHARGES

The Council or its Designee are authorized to establish rates, using the procedures set forth below, and may establish fees, and other charges for utilization of the Council or its Designee Wastewater Collection and Treatment System, including sewer hookup, or any other service authorized by the Wastewater Ordinance, and its implementation, including the implementation and maintenance of the Pretreatment Program from Users of the Council's or its Designee Wastewater Collection and Treatment System.

3.1 Charges for Sanitary Sewer and other Wastewater Collection and Treatment

a) Until modified pursuant to the provisions set forth in Section 23-92, below, for sanitary sewer services the following base charge and basic rate shall apply to all customers whether domestic or non-domestic: A base charge of four dollars ($4.00) per month plus a charge of one dollar and ninety-four cents ($1.94) for each one thousand (1,000) gallons of water consumed by such customer.

b) In addition to the base charge and rates authorized by Section 23-89 (a), by a "Base Fee Schedule" which the Council may include in its Rules and Regulations, a fee may be collected by the Council, as a tapping or hookup fee and for any other service authorized by the Wastewater Ordinance and its implementation, including any Pretreatment or Treatment Programs, which such charges shall be designed to defray or help defray the costs of providing any such services, and which such Base Fee Schedule may be amended from time to time by the Council.

c) If any person or entity so desires, he or it may cause to be installed, at his sole expense and subject to the approval of the installation by the City Council or its Designee, as appropriate, either:

1) A separate meter to measure the discharge of wastewater, in which event the charge for sanitary sewer service to such customer shall be based on the amount of wastewater discharged rather than on the amount of water consumed; or
2) In the case of any customer any portion of the water consumed by who is not customarily discharged or disposed of through sanitary sewer lines of the city, a separate meter measuring that portion of his water consumption that is customarily discharged or disposed of through sanitary sewer lines of the city, in which event the charge for sanitary sewer service to such customer shall be based on the amount of that portion of his water consumption that is customarily discharged or disposed of through sanitary sewer lines of the city, as shown by such separate water meter. Said evaporation meter shall only be calibrated by a certified third party.

d) In the case of any customer or entity all or any significant portion of the water consumed by whom is obtained from a source or sources other than the water department, such customer shall cause to be installed, at is sole expense and subject to the approval of the installation by the water department, a meter to measure that mount of water consumed by him from a source or sources other than the water department, in which event the charge for sanitary sewer service to such customer shall be based on that amount of water consumed by him that is furnished by such source or sources (as shown by such meter), as well as on the amount on any water consumed by him that is furnished by the water department. In the event the current monthly bill is not paid within fifteen (15) days from the date of the bill, the gross rate shall apply.

e) For residential accounts only, where a separate meter is not installed to measure water not customarily discharged or disposed of through sanitary sewer lines of the city, the maximum charge for sanitary sewer service to such accounts, during billing cycles occurring April through October each year, shall be based upon the average sanitary sewer service charge during the immediate preceding five (5) months, times a percentage to be set from time to time by the City of Cullman's Council or its Designee, but not to exceed the rates above specified based on actual consumption of water. As to residential accounts without five (5) months prior

history the system residential account average shall be used, or actual consumption, whichever is less.

3.2 Rates, Fees, Charges, and Surcharges for Non-Domestic Sewer Use

1) In addition to the base rate and charges authorized by Section 23-89(a), a Surcharge, based on discharge and pollutant concentrations, shall be charged for all non-domestic wastewater customers in accord with a "Non-Domestic Sewer Use Surcharge Schedule". Until modified pursuant to the provisions set forth in Section 23-92, below, the "Non-Domestic Sewer Use Surcharge Schedule" shall be as follows:

| Parameter | Base Allowance | Surcharge Step 1 | | Surcharge Step 2 | | Surcharge Step 3 | |
|---|---|---|---|---|---|---|---|
| | | Conc. | Rate | Conc. | Rate | Conc. | Rate |
| pH | 5.0-10.5 | - | - | - | - | - | - |
| $BOD_5$ | 250 mg/l | 250-1,000 mg/l | $0.03/lb | 1,001-3,000 mg/l | $0.06/lb | >3,000 mg/l | $0.15lb |
| COD | 500 mg/l | 500-2,000 mg/l | $0.03/lb | 2,001-6,000 mg/l | $0.06/lb | >6,000 mg/l | $0.15lb |
| TSS | 250 mg/l | 250-700 mg/l | $0.08/lb | 701-3,000 mg/l | $0.16/lb | >3,000 mg/l | $0.25lb |
| Oil & Grease | 100 mg/l | >100 mg/l | $0.20/lb | - | - | - | - |
| TKN | 60 mg/l | - | - | - | - | - | - |
| Ammonia | 50 mg/l | 50-100 mg/l | $0.05/lb | 101-200 mg/l | $0.10/lb | 201-400 mg/l | $0.25lb |
| Phosphorus | 20 mg/l | >20 mg/l | $0.25/lb | - | - | - | - |
| Sulfates | 250 mg/l | 250-500 mg/l | $0.05/lb | 501-800 mg/l | $0.10/lb | >800 mg/l | $0.25lb |
| Chlorides | 1000 mg/l | 1,000-2,000 mg/l | $0.01/lb | 2,001-5,000 mg/l | $0.02/lb | >5,000 mg/l | $0.05lb |
| Chlorine Demand | 15 mg/l | >15.0mg/l | $0.05/lb | - | - | - | - |
| Molybdenum | 1 mg/l | >1.0 mg/l | $1.00/lb | - | - | - | - |
| Total Toxic Organics | 5 mg/l | - | - | - | - | - | - |

Notes:

- Surcharge step shall be determined by average monthly sample concentration. Surcharge amount shall be based on the rate at the single appropriate step.
- Pounds of containment for surcharge calculation shall be based on the average monthly sample concentration less the base allowance concentration.
- Surcharge amount charge for BOD and COD shall be greater of the two; surcharge is not cumulative for these parameters.
- For maximum Allowable Concentrations, see Section 23-135.

(2) In addition the Council or its Designee is authorized to establish charges and fees for on-Domestic Sewer Use pursuant to Article III-A that may include:

(a) fees for reimbursement of costs of setting up and operating the Council's Pretreatment Program;
(b) fees for monitoring, inspections and surveillance procedures;
(c) fees for reviewing accidental discharge procedures and construction:
(d) fees for filing appeals;
(e) other fees as the Council or its Designee may deem necessary to carry out the requirements contained herein;
(f) fees for violation of pretreatment requirements.

The charges and fees in this section apply solely to the matters arising from the implementation of Article III-A, the Non-Domestic Sewer Use Ordinance, and are separate from and in addition to any and all other fees chargeable by the City.

3) Notwithstanding any other effective date or dates established for any portion of this ordinance, the rates outlined above in Surcharge Step 3 shall take effect on _____, 2017.

3.3 Payment of Rates, Fees and Charges; Termination of Service for Non-Payment

Except as otherwise provided in this Wastewater Ordinance, rates, fees and charges as provided for in the Wastewater Ordinance will be included on the regular water and sewer bill or on a separate wastewater rate, fee, surcharge, or other bill and is due and payable under the terms set forth in the bill. Any person, entity, or User who fails or refuses to remit fees assessed by the City of Cullman shall have its service or authorization to discharge immediately suspended and is subject to termination, revocation, suspension or other action.

3.4 Procedures for Establishment of Rates and Charges

Rates and Charges, including surcharges, for the utilization of the Wastewater Collection and Treatment System are to be established by the City of Cullman under the following procedure. The City shall establish by resolution and may, from time to time, amend, any rate, charge, or surcharge authorized under the Wastewater Ordinance. Such rate, charge, or surcharge shall be set forth by an ordinance or schedule and all shall become effective ninety (90) days following establishment thereof by the City. Following the establishment of any rate, charge, or surcharge by the City, the City shall submit such rate, charge, or surcharge schedule to the City of Cullman. Prior to the effective date of any rate, charge, or surcharge schedule, the City shall cause to be published a notice of availability of such rate, charge, or surcharge schedule in a local newspaper of general circulation in the City of Cullman once a week for three consecutive weeks commencing with the next week following the week any such rate, charge or surcharge schedule is established by the Council; or, as an alternative to such publication, the Council may mail by regular United States mail, a copy of any such a rate, charge, or surcharge schedule to the most recent address provided by Users subject to the rate, charge, or surcharge schedule within three (3) weeks after such is established by the City. If the City of Cullman takes no action modifying or otherwise rejecting such rate, charge, or surcharge schedule, the same shall make effect on the ninety-first day following its establishment by the City and it shall be set forth in the Rules and Regulations governing utility service from the City. The City of Cullman may, prior to the expiration of the ninetieth day following establishment by the City of any the rate, charge, or surcharge schedule, revise, modify, or take such other action with respect thereto as the City of Cullman deems appropriate. Any prior rate, charge, or surcharge schedule shall be superseded on the day upon which a subsequent rate, charge, or surcharge schedule becomes effective under these provisions, provided, however, that any rate, charge or surcharge schedule in effect as of the date of the enactment of this Wastewater Ordinance, including all such rate, charge or surcharge schedules in effect upon the effective date of this Ordinance, have by enactment of this Wastewater Ordinance been determined to be authorized by the City of Cullman pursuant to law and shall remain in effect until amended or superseded by the process set forth herein.

## SECTION IV – SEWER MAINTENANCE

4.1 Inflow and infiltration; defined

For the purposes of this Division, the following definitions, terms and their application shall be used and applied:

1. Infiltration – shall mean the water entering sewers and building sewer connections from the soil through defective joints, broken or cracked pipe, improper connections, manhole walls or any other appurtenances. Infiltration does not include and is distinguished from inflow.

2. Inflow- shall mean the water discharged into the sewer lines from such sources as roof leaders, cellar and yard area drains, foundation drains, commercial, and industrial discharges of unpolluted wastewater as defined hereinbelow, drains from springs and swampy areas, or any other such sources. Inflow does not include and is distinguished from infiltration.

(Ord. No. _____)

4.2 Permit requirements for building sewers

Any building sewer required to make connection to the POTW as stipulated in Section _____ of this chapter, shall first make application to the City on forms provided therefor. All building sewer connections shall be subject to inspection and certification to determine compliance with adopted rules, regulations and/or policies governing such connection by the City for the purpose of preventing inflow and infiltration which may arise from the installation and connection of said building sewer to the POTW.

(Ord. No. _____)

4.3 Maintenance of Building Sewers

a. It shall be the responsibility and duty of each property owner and/or user who is presently connected to the POTW system or may become connected to the POTW system hereafter to properly maintain all lines, pipes, and equipment connected to or interacting, in any way with the POTW system so as to prevent infiltration and/or inflow into said POTW system.

b. The building director or his designated agent shall be permitted to enter upon the property of any use of the POTW system for the purpose of inspecting the user's building sewer and any pipes, lines, and/or equipment connected thereto.

c. In the instance that it is determined that a property owner connected to the POTW system has failed to maintain his/her building sewer or any pipes, lines, and/or equipment connected thereto so as to prevent infiltration and/or inflow, written notice shall be given by the posting of such notice on the front door or main entrance of the structure being served and by mailing a certified letter containing the notice to the property owner's address as may be on file in the office of the tax assessor or Cullman County.

d. The property owner so notified shall have thirty (30) days from the date the notice is placed in the mail to correct any defects in the building sewer or any pipes. Lines, and/or equipment connected to the POTW system. For the purpose of this section, failure of the property owner to correct such defects shall be deemed prima facia evidence of the property owner's intentional violation of the section and any other related sections of this chapter and shall bar an defenses by the property owner which related to awareness of this section or any other related sections of this chapter or the intention to violate this section. Failure to act shall be deemed an admission for the City to come upon the line to correct, if necessary, any defects at owners sole cost.

e. The Council shall provide in conjunction with local financial institutions a repayment program to qualified property owners whereby the costs of correcting defects in building sewers and any pipes, lines, and/or equipment connected to the POTW system can be repaid to the local financial institution associated with the repayment program on their monthly Cullman Utilities billing statement. Qualified property owners may choose but are not required to participate in such available repayment program offered by City of Cullman Utilities in order to correct the aforementioned defects.
f. In the event the defects are not corrected by the property owner within thirty (30) days from the date the notice was mailed and the city deems it necessary to correct such defects, the total expense of such corrections, including but not limited to legal, accounting, engineering, and construction expenses, shall be charged to the property owner and will constitute a lien against the property owner to be collected as provided by law.
g. The City, in lieu of correcting a property owner's defects, many, after notice provided hereinabove, suspend all service to the property owner at the address where the defects have been identified.
h. The correction of such defects by a party other than the property owner shall not prevent the conviction of the property owner for violations of this section and any other related sections of this chapter which have occurred prior to making such corrections and the payment of expenses for correcting defects shall be in addition to and not in lieu of any other criminal penalties imposed by law.

## SECTION V - NON-DOMESTIC (INDUSTRIAL, COMMERCIAL, INSTITUTIONAL) USE OF PUBLIC WASTEWATER FACILITIES

5.1 Purpose and Policy
The "Non-Domestic Sewer Use Ordinance" sets forth uniform requirements for the protection of the health, safety and welfare of the citizens of Cullman. This Non-Domestic Sewer Use Ordinance regulates all direct and indirect contributors of Non-Domestic Wastewater into the wastewater collection and treatment system owned by the City of Cullman and operated by the City Council and/or its designee, of the City of Cullman; enables the City to ensure compliance with all applicable, State and Federal laws required by the Clean Water Act of 1977 and the General Pretreatment Regulations (40 CR, Parts 401 et seq., including amendments) and includes pursuant to those authorities and the laws of the State of Alabama the establishment of local limits and controls to address impacts to the wastewater collection and treatment system, provide for its safe and effective operation, and prevent pass through of pollutants or interference with the treatment system which could potentially impact human health, safety, welfare, and the environment. The "Non-Domestic Sewer Use Ordinance" authorizes the City to regulate persons or owners who are direct and indirect contributors of Non-Domestic Wastewater to the City's wastewater system, referred to as "Contributors" or "Users" of the wastewater collection and treatment system. Regulation is provided through the written authorization of certain non-domestic Users through permits, contracts, or other appropriate mechanisms, and through enforcement of and compliance with general and specific requirements for Users, authorizes monitoring and enforcement activities, requires User reporting, sampling and analysis, establishes administrative review procedures, assumes that existing customer's lawful capacity will not be preempted except as provided in the Non-Domestic Sewer Use Ordinance, provides for maximum strength and load of contributions, and provides for the setting of fees for the equitable distribution of costs resulting from the program established herein. The "Non-Domestic Sewer Use Ordinance" shall apply to all Users both within and outside the city limits of the City of Cullman who discharge or contribute to the City's wastewater collection and treatment system. Any User that discharges wastewater in to the City's wastewater system, shall comply with the terms and conditions established in the "Non-Domestic Sewer Use Ordinance", as well as any permits, orders, or other conditions issued hereunder. Except as otherwise provided herein, the Council or his designees shall administer, implement, and enforce the provisions of the "Non-Domestic Sewer Use Ordinance". Any powers granted to or duties imposed upon the Council may be delegated by the Council to other City personnel. Except as specifically provided in this Non-Domestic Sewer Use Ordinance, this Non-Domestic Sewer Use Ordinance is not applicable to discharges of wastewater comprised solely of human excrement and/or household gray water.

5.2 Objectives
1. The Objectives of Section IV are incorporated by reference.
2. To provide wastewater collection and treatment services to many industrial users within the City of Cullman and outside City limits to the extent that such services can be provided while also meeting increasingly stringent environmental and treatment requirements, providing for future residential and economic growth.
3. To provide for a mechanism for regulating, controlling, and enforcing wastewater discharge limitations and conditions for the protection of the POTW, health, safety and the environment.
4. To provide for a mechanism to find wastewater collection and treatment services, to ensure resources are available to adequately treat Non-Domestic wastewater, and provide incentives for reduction of discharge of high-strength wastewaters.

## SECTION VI

6.1 General Discharge Prohibitions - Domestic and Non-Domestic
1. No User shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater which will pass through or interfere with the operation or performance of the City's wastewater collection and/or treatment facilities. These general prohibitions apply to all such Users of the City's wastewater facilities whether or not the Use is subject

Categorical Pretreatment Standards or any other National, State, or local Pretreatment Standards or Requirements.

2. A User may not discharge to the City's wastewater collection and treatment facilities any of the following:

a. Any liquids, solids, or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the City's wastewater facilities or to the operation of the City's wastewater treatment facilities. At no time, shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system) be more than five percent (5%) nor any single reading over ten percent (10%) of the lower explosive limit (LEL) of the meter. Prohibited material include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides and any other substances which the City, the State or EPA has notified the User is a fire hazard or a hazard to the system.

b. Solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities such as, but not limited to: garbage with particles greater than one-half inch (1/2") in any dimension, grease, animal guts or tissues, paunch manure, bones, hair, hides, or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, sheets, pillowcase, eggshells, spent grains, spent hops, waste paper, wood, plastics, gas, tar, asphalt residues from refining, or processing of fuel or lubricating oil, mud, glass grinding or polishing wastes.

c. Any wastewater containing toxic pollutants in sufficient quantity, either singly or by interaction with the other pollutants, to injure or interfere with any wastewater treatment process, constitutes a hazard to humans or animals, health, safety or the environment, create a toxic effect in the City's wastewater treatment facilities or receiving water, or to exceed the limitations set forth in a Categorical Pretreatment Standard or requirement of this Non-Domestic Sewer Use Ordinance, the Alabama Water Pollution Control Act, or the Federal Pretreatment Regulations.

d. Toxic pollutants including pollutants identified pursuant to Section 307(a) of the Act, hazardous constituents or wastes under RCRA, hazardous substances under CERCLA, except as specifically authorized under this Non-Domestic Sewer Use Ordinance, permit or other authorization issued by the City.

e. Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create public nuisance or hazard to life or are sufficient to prevent entry into the sewers for maintenance and repair.

f. Any substances which may cause the City's wastewater treatment facilities' effluent or any other product of the City's wastewater treatment facilities such as residues, sludge, or scum, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case, shall a substance discharged to the City's wastewater treatment facilities cause the City's wastewater treatment facilities to be in non-compliance with sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act; any criteria, guidelines, or regulations affecting sludge used or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, or State Criteria applicable to the sludge management method being used.

g. Any substance which will cause or has the reasonable potential to cause or contribute to an exceedance of any effluent limitation, exceedance or excursion of any water quality criteria or standard, or non-compliance with any condition set forth in the City's NPDES and/or State Disposal System Permit, receiving water quality standards, or any applicable Federal, state, or local law.

h. Any pollutants released at a flow rate and/or pollutant concentration which alone or in conjunction with other discharges causes interference to the City's wastewater treatment facilities.

i. Any wastewater containing any radioactive wastes or isotopes except in compliance with applicable Federal, State, and local law and regulations and as specifically authorized by the City.

j. Any wastewater which causes a hazard to human life or creates a public nuisance.

k. Storm water, surface water, ground water, artesian well water, roof runoff, subsurface drainage, condensate, deionized water, cooling water and unpolluted industrial wastewater, unless specifically authorized by the City.

l. Medical wastes or wastewater, except as specifically authorized by the City.

m. Wastewater causing, alone or in conjunction with other sources, the POTW's effluent to fail a toxicity text.

n. Wastes prohibited by this section shall be processed or stored in such a manner that these wastes could not be discharged to the City's wastewater system. All floor drains located in process or materials storage areas must discharge to the User's pretreatment facility before connecting with the City's wastewater system.

o. Any wastewater with objectionable color not removed in the treatment process, such as, but not limited to, dye or ink wastes, and vegetable tanning solutions.

p. Any wastewater having a temperature which will inhibit biological in the City's wastewater treatment plant resulting in interference, but in no case wastewater with a temperature and /or in such quantities that the temperature at the POTW exceeds 40°C (104°F).

q. Any gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid or gas.

r. Any wastewater or wastes containing a toxic or poisonous substance(s) or any other material in sufficient quantity to injure or interfere with any sewage treatment process, or constitute a hazard to humans or animals, or crate any hazard in the receiving waters of the sewage treatment plant, and without proper pretreatment and

written approval of the Council.

s. Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create public nuisance or hazard to life or are sufficient to prevent entry into the sewer for maintenance and repair.

t. Any wastewater or wastes having an objectionable color which is not removable in the existing sewage treatment plant process.

u. Any long half-life (over 100 days) of toxic radioactive isotopes, without special permit.

3. In no case shall a slug load have a flow rate or contain concentration or qualities of pollutants that exceed for any time period longer than fifteen (15) minutes in each twenty-four (24) hour period more than five (5) times the average twenty-four (24) hour concentration, quantities, or flow during normal operation, or exceed the maximum concentration or qualities of pollutants established in this Ordinance or any permit or authorization issued by the City or Council. Normal operation is defined as the operational characteristics as described in any permit or authorization issued by the City or Council, or in the absence of a permit or authorization, operational characteristics as submitted by the User in any application, industrial waste survey, or other documentation provided to the City or Council, and/or ADEM.

4. When the Council determines that a User(s) is contributing to the City's wastewater treatment facilities, any of the above enumerated substances in such amounts as to interfere with the operation of the City's wastewater treatment facilities, the Council may:

▲ Advise the User(s) of the impact of the contribution on the City's wastewater treatment facilities

▲Develop effluent limitation(s) for such User(s) to correct the interference with the City's wastewater treatment facilities

## SECTION VII

All discharges must comply with applicable Federal Pretreatment Regulations, which are incorporated as limitations and prohibitions in this Ordinance as if fully set forth herein. Upon the promulgation of new, revised, or modified Categorical Pretreatment Standards for a particular industrial sub-category, the Federal Standard, if more stringent than limitations imposed under this Non-Domestic Sewer Use Ordinance or sources in that sub-category for a particular pollutant, shall be deemed the applicable limitation or prohibition under this ordinance upon the effective date of such Federal Categorical Pretreatment Standard. Nothing in this Section shall affect the authority of the City and Council to establish more stringent limits for any User, or reject wastewater from any User, as otherwise provided in this Ordinance.

7.1 Modification of Federal Pretreatment Regulations

1. Where the City's wastewater treatment system achieves consistent removal of pollutants limited by Federal Pretreatment Standards, the City may apply to the Approval Authority for modification of specific limits in the Federal Pretreatment Standards. "Consistent Removal" shall mean reduction in the amount of a pollutant or alteration of the nature of the pollutant by the wastewater treatment system to a less toxic or harmless state in the effluent which is achieved by the system in 95 percent of samples taken when measured according to the procedures set forth in Section 403.7(b)(2) of (Title 40 of the Code of Federal Regulations, Part 403) – "General Pretreatment Regulations for Existing and New Sources of Pollution" promulgated pursuant to the Act. The City may then modify pollutant discharge limits from those established in the Federal Pretreatment Standards if the requirements contained in 40 CFR, Part 403, Section 403.7, are fulfilled and prior approval from the Approval Authority is obtained.

2. The City or Council may establish local limits in accordance with 40 C.F.R., Part 403.

7.2 Pretreatment Facilities

Users shall provide necessary wastewater treatment as required to comply with this "Non-Domestic Sewer Use Ordinance," and shall achieve compliance with all Federal Pretreatment Regulations, Categorical Pretreatment Standards, Local Limits, and any other applicable requirements within the time limitations specified by the City. Any facilities required to pretreat wastewater in accordance with this "Non-Domestic Sewer Use Ordinance," Federal Pretreatment Regulations, Categorical Pretreatment Standards, Local Limits, and any other applicable requirement shall be provided, operated, and maintained at the User's expense. Detailed plans showing the pretreatment facilities and operating procedures shall be submitted to the City for review upon request. Grease, oil, and sand interceptors shall be provided when, in the opinion of the City, they are necessary for the proper handling of wastewater containing amounts of grease, flammable substance, sand, or other harmful substances. Such interceptors shall be inspected, cleaned, and repaired regularly, as needed by the owner or User and/or Health Department or City Inspector at its expense.

7.3 Specific Pollutant Limits

Except as herein otherwise provided, no person shall discharge or cause to be discharged any of the following waters or wastes into any sanitary sewer system of the Council or its Designee of the City of Cullman:

1. Any liquid or vapor in such quantities that will inhibit biological activity in the City's wastewater treatment plant resulting in interference, or any wastewater in such quantities such that the temperature at the POTW exceeds 40°C(104°F).

2. Any wastewater or waste which may contain more than 100 parts per million by weight of fat, oil or grease or other substance that will solidify or become viscous at temperatures between 32°F and 90°F, except as specifically authorized

by the City. Such authorization may be provided only upon (1) receipt of adequate proof of financial ability to satisfy all fees as set forth in Division III and established by the City; (2) agreement to reimburse the City for any and all additional costs of treatment incurred by the City for treating such wastewaters; and (3) upon the establishment of limitations and conditions by the Council, including but not limited to flow rate, concentration, timing, and duration of discharge.

3. Any wastewater or wastes that contain more than ten parts per million by weight of hydrogen sulfide, sulfur dioxide, and/or nitrous oxide.

4. Any garbage that has not been property shredded.

5. Any ashes, cinders, sand, mud, straw, shaving, metal, glass, rags, feather, tar, plastics, wood, paunch manure or other solid or viscous substance capable of causing obstruction to the flow in sewers and other interference with the proper operation of the sewer works.

6. Any wastewater or wastes having a pH lower than 5.0 or higher that 10.5 or having any other corrosive property capable of causing damage or hazard to the City's structures, equipment and personnel.

7. Any wastewater or wastes containing suspended solids in concentration greater than 250 mg/l and are of such character and quantity that unusual attention or expense is required to handle such materials at the sewage treatment plant, except as specifically authorized by the Council. Such authorization may be provided only upon (1) receipt of adequate proof of financial ability to satisfy all fees as set forth in Section ____; (2) agreement to reimburse the City for any and all additional costs of treatment incurred by the City for treating such wastewaters; and (3) upon the establishment of limitations and conditions by the Council, including but not limited to flow, rate, concentration, timing, and duration of discharge.

8. Any wastewater or wastes containing BOD in concentration greater than 250 mg/l except as specifically authorized by the Council by permit, authorization, or contract. Such authorization may be provided only upon (1) receipt of adequate proof of financial ability to satisfy all fees as set forth in Section ____; (2) agreement to reimburse the City for any and all additional costs of treatment incurred by the City for treating such wastewaters; and (3) upon the establishment of limitations and conditions by the Council, including but not limited to flow, rate, concentration, timing and duration of discharge. Any authorization allowing the User to discharge BOD in concentrations greater than 250 mg/l shall include a maximum BLD loading value in pounds per day not to be exceeded by the User. No User shall discharge BOD in amounts which alone or in conjunction with other discharges exceeds the headworks capacity of the City's wastewater treatment system.

9. Any wastewater or waste containing phenols in such concentrations alone or in conjunction with other discharges so as to adversely affect the operation of the City's wastewater treatment plant, or cause or contribute to interference, pass through, or upset. Quantities of such substances will be determined by the Council on a case by case basis.

10. Any wastewater subject to a Categorical Pretreatment Standard which is in excess of State or Federal effluent guidelines.

11. Any fats or greases including but not limited to petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause interference or pass through.

12. Any material identified as hazardous waste or a hazardous constituent according to regulations promulgated pursuant to RCRA, including 40 CFR Part 261 et seq. or meeting hazardous waste characteristics, except as may be specifically authorized by the City of Council.

13. All pollutants listed under Section _____ - General Discharge Prohibitions are included in their entirety as part of this section.

14. Any wastewater or waste which does not comply with all requirements set forth in 40 CFR, Parts 400 through 479.

15. Any wastewater or waste which does not comply with the provisions of the Alabama Water Pollution Control Act, the Clean Water Act, or any permit issued pursuant to such authority.

16. Pollutants which result in the presence of toxic gases, vapors, or fumes within the City's wastewater collection and treatment system in a quantity that may cause acute worker health and safety problems.

17. Any trucked or hauled pollutants, except at discharge points designated by the City or Council.

18. Any waters or wastes containing in excess of the limits established below:

| | 30 Day Average Concentration, mg/l | Daily Maximum Concentration mg/l |
|---|---|---|
| Aluminum | 25.0 | 50.0 |
| Arsenic | 0.1 | 0.5 |
| Cadmium | 0.1 | 0.2 |
| Cobalt | 0.8 | 1.6 |
| Copper | 1.0 | 2.0 |
| Chromium (hexavalent) | 0.1 | 0.2 |
| Chromium (total) | 2.5 | 5.0 |
| Cyanide | 0.5 | 1.0 |
| Iron | 10.0 | 20.0 |
| Lead | 0.1 | 0.2 |
| Mercury | 0.01 | 0.1 |
| Molybdenum | | 1.0 |

| | | |
|---|---|---|
| Nickel | 0.5 | 1.0 |
| Silver | 0.25 | 0.5 |
| Tin | 5.0 | 10.0 |
| Zinc | 1.8 | 3.6 |
| Total metals (except Aluminum and iron) | 5.0 | 10.5 |
| Selenium | 0.02 | 0.04 |
| Color | ---------- | 1000 ADMI |

The limits fixed herein may be used as a guide in design and plant control, but may be altered by the Council as necessary to meet the purposes set forth in Section ___, or as otherwise required or authorized by State or Federal law, or in the event of a cumulative overload on a particular drainage basin or wastewater treatment plant. The Council may also establish limits for other pollutants as necessary to meet the purposes set forth in Section _____, or as otherwise required or authorized by State or Federal law, or in the event of a cumulative overload on a particular drainage basin or wastewater treatment plant.

7.4 State Requirements

State requirements and limitations on discharges shall apply in any case where they are more stringent than Federal Requirements and limitations or those in the Non-Domestic Sewer Use Ordinance.

7.5 City's Right of Revision

The City is granted authority to establish by resolution more stringent limitations or requirements on discharges to the wastewater disposal system if deemed necessary to comply with the objective presented in Section _____ of the Non-Domestic Sewer Use Ordinance.

7.6 Excessive Discharge

No User shall ever increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the Categorical Pretreatment Standards, SID Permit, permit or authorization issued by the City or Council, the Non-Domestic Sewer Use Ordinance, or in any other pollutant-specific limitation developed by the City or State.

7.7 Accidental Discharges

Each User shall provide protection from accidental discharge of prohibited materials or other substances regulated by the Non-Domestic Sewer Use Ordinance. An accidental discharge is any discharge of wastewater containing pollutants to the City's wastewater collection and treatment system which is not explicitly authorized by permit, contract, or other written authorization. An accidental discharge constitutes a violation of this Ordinance. Facilities to prevent accidental discharge of prohibited materials shall be provided and maintained at the owner's or User's own cost and expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the City for review, and shall be approved by the City before construction of the facility. Review and approval of such plans and operating procedures shall not relieve the User from the responsibility to modify the User's facility as necessary to meet the requirements of the Non-Domestic Sewer Use Ordinance. In the case of an accidental discharge, it is the responsibility of the User to:

1. Immediate Notice – User should immediately telephone and notify the City of the incident. The notification shall include location of discharge, type of waste, concentration and volume, and corrective actions. User shall notify ADEM of discharge required by EPA or ADEM regulations.
2. Written Notice – Within five (5) days following an accidental discharge; the User shall submit to the Council a detailed written report describing the cause of the discharge and the measures to be taken by the User to prevent similar future occurrences. Such notifications shall not relieve the User of any expense, loss, damage, or other liability which may be incurred as a result of damage to the City's wastewater treatment facilities, fish kills, or any other damage to person or property; nor shall such notification relieve the User of any fines, civil penalties, or other liability which may be imposed by this article or other applicable law.
3. Notice to Employees – A notice shall be permanently posted at all times on the User's bulletin board or other prominent place advising employees whom to call in the event of a dangerous discharge. Employers shall insure that all employees who may cause or suffer such a dangerous discharge to occur are advised of the emergency notification procedure.

7.8 Regulation of Waste Received From Other Jurisdictions

1. If another municipality, county, or other governmental entity, or an existing or new User located within the jurisdiction of another municipality, requests permission to contribute wastewater to the City's wastewater system, the City may authorize the discharge of such wastewater in its discretion after entering into an intergovernmental contract with the contributing governmental entity for such wastewater contribution. Prior to entering into an agreement required by this Section the City shall request the following information from the contributing municipality.

(a) A description of the quality and volume of wastewater to be discharged to the wastewater plant by the

contributing municipality;

(b) An inventory of all Users located within the contributing municipality that are discharging to the wastewater plant; and

(c) Such other information as the Council may deem necessary,

2. An intergovernmental contract shall contain one or more of the following conditions:

(a) A requirement for the contributing municipality to adopt a sewer use Ordinance which is at least as stringent as this ordinance and local limits which are at least as stringent as those set out in appropriate sections of this ordinance. The requirement shall specify that such ordinance and limits must be revised as necessary to reflect changes made to the City's ordinance or local limits;

(b) A requirement for the contributing municipality to submit a revised User inventory on at least an annual basis or more frequently as requested;

(c) A requirement for new significant industrial Users discharging into sewers of a contributing municipality to obtain a wastewater discharge permit from the City or Council.

(d) In the event the governmental entity has in place an industrial pretreatment program in accordance with the Act and approved by ADEM, a provision specifying which pretreatment implementation activities, including wastewater discharge permit issuance, inspection and sampling, and enforcement, will be conducted by the governmental entity; which of these activities will be conducted by the City; and which of these activities will be conducted jointly by the governmental entity and the City;

(e) A requirement for the contributing municipality to provide the City with access to all information that the contributing municipality obtains as part of its pretreatment activities necessary to achieve the purposes set forth in Section _____;

(f) Limits on the nature, quality, and volume of the contributing Governmental Entity or User's wastewater at the point where it discharges to the wastewater system or treatment plant;

(g) Requirements for monitoring the Governmental Entity or User's discharge;

(h) A provision ensuring the City access to the facilities of Users located within the contributing municipality's jurisdictional boundaries for the purpose of §inspection, sampling, and any other duties deemed necessary by the City; and

(i) A provision specifying remedies available for breach of the terms of the intergovernmental contract.

3. Primary enforcement authority for violations of pretreatment permits pursuant to this Section lie with the jurisdiction having authority over the industrial User, provided, however, that should such jurisdictional entity fail to take appropriate enforcement action in a timely manner, that the City shall be authorized to take any action as appropriate to address a violation of this Ordinance, including but limited to all actions authorized in Division _____.

7.9 Sand and Oil/Grease Interceptors

1. Requirement for:

(a) All Users involved in the preparation of food for commercial purposes shall provide oil/grease interceptors or traps. Grease traps shall be designed as appropriate for the size of the facility as specified in subsection (2) below. Additionally, any User who generates a wastewater which contains greater than the quantity of oil and grease regulated under Section _____, and provided that the excess oil and grease is floatable and can be effectively removed in an oil/grease interceptor or trap, then said User will be required to install a grease/oil interceptor of approved design.

(b) All Users whose wastewater stream is associated with unusually large quantities or grit, sand or gravel shall be required to install a sand trap. All car/truck wash systems shall be required to install a sand trap. Trap design and installation shall meet the provisions of the duly adopted current Building Code of Cullman, Alabama, Article _____, Code Sections _____.

(c) The requirements of this ordinance section shall not apply to private living quarters or dwelling units.

2. Design Criteria

(a) For restaurants and other eating establishments

All sand and oil/grease interceptors used in conjunction with restaurants or other eating establishments shall meet or exceed all requirements of the Cullman Building Department and all plumbing codes established in Article _____ of this Code of Cullman, Alabama.

(b) For facilities other than eating establishments

All sand and oil/grease interceptors used in conjunction with facilities other than eating establishments shall have a capacity that will provide not less than ten (10) minutes nor more than thirty (30) minutes retention time at the peak eight (8) hour flow rate. Flow-through velocities shall not exceed one foot per second at the peak eight (8) hours flow rate.

(c) All sand and oil/grease interceptors shall be sized, located and constructed in accordance with the provision of the duly adopted Building Code of Cullman, Alabama, Article _____ Code Sections _____ where such parameters have not been otherwise set forth herein.

3. Maintenance

(a) All grease, oil and sand interceptors or traps shall be maintained by the User at their expense, in continuously efficient operation at all times.

(b) In the maintaining of these interceptors, the owner shall be responsible for the proper removal and disposal by appropriate means of the captured material, and shall maintain records of the dates, and means of disposal which are subject to review by the City. The frequency of removal shall be such as to ensure that no overflows of oil, grease or sand into the wastewater system ever results.

4. Proper Disposal of Collected Materials

Any removal and hauling of the collected materials not performed by the owner's employees must be performed by currently licensed waste disposal firms. Under no circumstances shall the collected materials ever be returned to the wastewater system.

ORDINANCE NO. _____

AN ORDINANCE TO AMEND ORDINANCE NO. _____, AS PREVISOUSLY AMENDED BY ORDINANCE NO. 2004 -_____, CONCERNING DISCHARGE INTO THE SANITARY SEWER SYSTEM OF THE CITY OF CULLMAN

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CULLMAN, ALABAMA AS FOLLOWS:

1. Section 3.3 of Ordinance No. 2004 _____ heretofore adopted by the City Council, as amended by Ordinance No. 2001-7, is further amended as follows:

A. Section 3.3 of Ordinance No. 1258 hereto adopted by the City Council, as amended by Ordinance No. 2001 – 7, is further amended as follows:

"3.3 Amounts of Charges and Fees. Charges and Fees to become effective with the effective date of this Ordinance:

3.3.1 Fees for permit applications $200.00

3.3.2 Charges for wastewater discharges to the Cullman POTW that exceed the limited discharge concentrations for BOD, TSS, oil and grease are as follows:

a) $0.04/lb BOD in excess of 250 Mg/L
b) $0.08/lb TSS in excess of 250 Mg/L
c) $0.20/lb oil and grease in excess of 100 Mg/L

3.3.3 Charges per septic tank truck discharge:

| | |
|---|---|
| a) 900 gallons and less | $ 45.00 |
| b) 900-2200 gallons | $105.00 |
| c) 2200 gallons and over | $105.00 plus |
| Each thousand gallons over 2200 gallons | $ 52.50 per thousand |
| (Trucks/non tankers/18 wheelers) | $ 40.00 per 800 gallons |
| d) Tankers exceeding 4500 gallons must be weighed | $ 0.008 per pound |
| (Solids not to exceed 250 ppm) | |

3.3.4 Permits issued under Section 3.3 shall be renewed annually by November 1st of each year."

2. The purpose of this ordinance is to amend Section 3.3 and in no way affects the other provisions of Ordinance No. 1258, which remain in full force and effect.

3. Any waters or wastes containing in excess of the limits established below:

| | 30 day Average Concentration, mg/l | Daily Maximum Concentration, mg/l |
|---|---|---|
| Aluminum | 25.0 | 50.0 |
| Arsenic | 0.1 | 0.5 |
| Cadmium | 0.1 | 0.2 |
| Cobalt | 0.8 | 1.6 |
| Copper | 1.0 | 2.0 |
| Chromium (Hexavalent) | 0.1 | 0.2 |
| Chromium (Total) | 2.5 | 5.0 |
| Cyanide | 0.5 | 1.0 |
| Iron | 10.0 | 20.0 |
| Lead | 0.1 | 0.2 |
| Mercury | 0.01 | 0.1 |
| Molybdenum | | 1.0 |
| Nickel | 0.5 | 1.0 |
| Silver | 0.25 | 0.5 |
| Tin | 5.0 | 10.0 |
| Zinc | 1.8 | 3.6 |
| Total Metals (except Aluminum and Iron) | 5.0 | 10.5 |

4. Any water or wastes that contain phenolic, or phenolic compounds, in excess of 0.1 parts per million by weight, wastewater from which sulfides in excess of 0.1 mg/l are discharged into the atmosphere, or other tastes or odor producing

substances in such concentrations exceeding limits established by the City as defined herein.

5. Wastewaters containing unusual concentrations of BOD which are defined as concentrations exceeding 250 ppm, chlorine demand exceeding 9.0 ppm or total phosphorus concentrations exceeding 20 ppm (as P).

6. Wastewaters containing unusual concentrations of inorganic suspended solids which are defined as concentrations exceeding 250 ppm or dissolved solids such as, but not limited to, chloride in concentrations greater than 10,000 ppm or sulfate in concentrations greater than 500 ppm.

7. Wastewaters containing substances which are not amenable to treatment by the wastewater treatment processes employed, or are amenable to treatment only to such degree that the wastewater treatment plant effluent cannot meet the requirements of State, Federal or other agencies having jurisdiction over discharge into the receiving waters.

8. Any wastewater which by interaction with other waters or wastes in the POTW release odors, as defined herein, from suspended solids which interfere with the collection system, or create a condition deleterious to the POTW. In cases where the effluent characteristics of a user's discharge exceeds the limited discharge requirements described in section 2.2 hereinabove, the acceptability of such wastewater to the POTW will be left to the judgment of the City and the Approval Authority. If in the judgment of the City and the Approval Authority the admission of such wastewaters will not interfere with the proper operation of the City's POTW and does not violate state or federal requirements, a permit to discharge said wastewater may be granted. However, the City may require the User to pay costs for both capital and operating and maintenance expenses to cover the cost of treatment for wastewater which exceeds the limited discharge requirements described within Section 2.2 hereinabove.

2.3 Federal Standards Upon the promulgation of the Federal Categorical Pretreatment Standards for a particular industrial subcategory, the Federal Standard, if more stringent that limitations imposed under this Ordinance for sources in that subcategory, shall immediately supersede the limitations imposed under this Ordinance. The City and/or Approval Authority shall notify all affected uses of the applicable reporting requirements under 40 CFR, Section 403.12.

2.4 Modification of Federal Standards When the City's POTW achieves consistent removal of pollutants limited by Federal Pretreatment Standards, the City may apply to the Approval Authority for modifications of specific limits in the Federal Pretreatment Standards. The City may modify pollutant discharge limits in the Federal Pretreatment Standards if the requirements contained in 40 CR, Part 403, Section 403.7 are fulfilled and prior approval from the Approval Authority is obtained.

2.5 Accidental Discharges Each User shall provide protection from accidental discharge of prohibited materials or other substances regulated by the Ordinance. Facilities to prevent accidental discharge of prohibited material shall be provided and maintained at the Owner or User's own cost and expense. In the case of an accidental discharge, it is the responsibility of the User to immediately telephone and notify the POTW of the incident. Notification shall include location of discharge, type of waste, concentration and volume, and corrective actions.

2.6 Excessive Discharge No User shall ever increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the National Categorical Pretreatment Standards, or in any other pollutant specific limitation described within this Ordinance.

2.7 Discharges From Septic Tank Pump Trucks Persons owning septic tank pump trucks, or other liquid transport trucks, and desiring to discharge contents of trucks shall comply with all rules and regulations of the City in addition to the requirements of this Ordinance and be properly licensed and permitted by State and County Authorities. The City reserves the right to change and/or modify existing City regulations pertaining to septic tank pump truck discharges as deemed necessary.

2.8 Ordinance 1040, An Ordinance Establishing Regulations For The Installation of Grease Interceptors By Certain Business Establishments In the City of Cullman, applies and alternate designs must be submitted to the building department for approval before installation and must also be acceptable to wastewater department to be approved for installation. Section 7.9 section 2-A of the proposed ordinance will create sizing problems for small restaurants and prohibit the small units often used.

ADOPTED BY THE CITY COUNCIL this the 10th day of September, 2018.

President of the City Council

ATTEST:

City Clerk

APPROVED BY THE MAYOR this the 10th day of September, 2018.

Mayor

**ORDINANCE NO. 2021 – 16**
**TO AMEND SECTION 56 OF THE CITY OF CULLMAN CODE OF ORDINANCES**

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CULLMAN, ALABAMA, AS FOLLOWS:**

Section 1. Section 56-51 of the Code of Ordinances City of Cullman is hereby amended by adding the following definitions:

**Sec. 56-51. - Definitions.**

*ADMI* means the American Dye Manufacturers Institute color units.

*Color* means the true color as established by standard method due to the substances in solution expressed in ADMI units.

*Objectionable Color* means any wastewater with objectionable color not removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions that is above the ADMI number for Daily Maximum Concentration, mg/l.

Section 2. Section 56-121 of the Code of Ordinances City of Cullman is hereby amended deleted in its entirety and replaced with the following definitions:

**Sec. 56-121. - General discharge prohibitions—Domestic and non-domestic.**

(a) No user shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater which will pass through or interfere with the operation or performance of the city's wastewater collection and/or treatment facilities. These general prohibitions apply to all such users of the city's wastewater facilities whether or not the user is subject categorical pretreatment standards or any other national, state, or local pretreatment standards or requirements.

(b) A user may not discharge to the city's wastewater collection and treatment facilities any of the following:

(1) Any liquids, solids, or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the city's wastewater facilities or to the operation of the city's wastewater treatment facilities. At no time, shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system) be more than five percent nor any single reading over ten percent of the lower explosive limit (LEL) of the meter. Prohibited material include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides and any other substances which the city, the state or EPA has notified the User is a fire hazard or a hazard to the system.

(2) Solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities such as, but not limited to: garbage with particles greater than one-half inch in any dimension, grease, animal guts or tissues, paunch manure, bones, hair, hides, or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, sheets, pillowcase, eggshells, spent grains, spent hops, waste paper, wood, plastics, gas, tar, asphalt residues from refining, or processing of fuel or lubricating oil, mud, glass grinding or polishing wastes.

(3) Any wastewater containing toxic pollutants in sufficient quantity, either singly or by interaction with the other pollutants, to injure or interfere with any wastewater treatment process, constitutes a hazard to humans or animals, health, safety or the environment, create a toxic effect in the city's wastewater treatment facilities or receiving water, or to exceed the limitations set forth in a categorical pretreatment standard or requirement of this article, the Alabama Water Pollution Control Act, or the Federal Pretreatment Regulations.

(4) Toxic pollutants including pollutants identified pursuant to Section 307(a) of the Act, hazardous constituents or wastes under RCRA, hazardous substances under CERCLA, except as specifically authorized under this article, permit or other authorization issued by the city.

(5) Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create public nuisance or hazard to life or are sufficient to prevent entry into the sewers for maintenance and repair.

(6) Any substances which may cause the city's wastewater treatment facilities effluent or any other product of the city's wastewater treatment facilities such as residues, sludge, or scum, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case, shall a substance discharged to the city's wastewater treatment facilities cause the city's wastewater treatment facilities to be in non-compliance with sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act; any criteria, guidelines, or regulations affecting sludge used or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, or State Criteria applicable to the sludge management method being used.

(7) Any substance which will cause or has the reasonable potential to cause or contribute to an exceedance of any effluent limitation, exceedance or excursion of any water quality criteria or standard, or non-compliance with any condition set forth in the city's NPDES and/or state disposal system permit, receiving water quality standards, or any applicable Federal, state, or local law.

(8) Any pollutants released at a flow rate and/or pollutant concentration which alone or in conjunction with other discharges causes interference to the city's wastewater treatment facilities.

(9) Any wastewater containing any radioactive wastes or isotopes except in compliance with applicable federal, state, and local law and regulations and as specifically authorized by the city.

(10) Any wastewater which causes a hazard to human life or creates a public nuisance.

(11) Storm water, surface water, ground water, artesian well water, roof runoff, subsurface drainage, condensate, deionized water, cooling water and unpolluted industrial wastewater, unless specifically authorized by the city.

(12) Medical wastes or wastewater, except as specifically authorized by the city.

(13) Wastewater causing, alone or in conjunction with other sources, the POTW's effluent to fail a toxicity text.

(14) Wastes prohibited by this section shall be processed or stored in such a manner that these wastes could not be discharged to the city's wastewater system. All floor drains located in process or materials storage areas must discharge to the user's pretreatment facility before connecting with the city's wastewater system.

(15) Any wastewater with objectionable color not removed in the treatment process, such as, but not limited to, dye or ink wastes, and vegetable tanning solutions.

(16) Any wastewater having a temperature which will inhibit biological in the city's wastewater treatment plant resulting in interference, but in no case wastewater with a temperature and /or in such quantities that the temperature at the POTW exceeds 40°C (104°F).

(17) Any gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid or gas.

(18) Any wastewater or wastes containing a toxic or poisonous substance(s) or any other material in sufficient quantity to injure or interfere with any sewage treatment process, or constitute a hazard to humans or animals, or crate any hazard in the receiving waters of the sewage treatment plant, and without proper pretreatment and written approval of the council.

(19) Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create public nuisance or hazard to life or are sufficient to prevent entry into the sewer for maintenance and repair.

(20) Any wastewater or wastes having an objectionable color which is not removable in the existing sewage treatment plant process.

(21) Any long half-life (over 100 days) of toxic radioactive isotopes, without special permit.

(c) In no case shall a slug load have a flow rate or contain concentration or qualities of pollutants that exceed for any time period longer than 15 minutes in each 24-hour period more than five times the average 24-hour concentration, quantities, or flow during normal operation, or exceed the maximum concentration or qualities of pollutants established in this article or any permit or authorization issued by the city or council. Normal operation is defined as the operational characteristics as described in any permit or authorization issued by the city or council, or in the absence of a permit or authorization, operational characteristics as submitted by the user in any application, industrial waste survey, or other documentation provided to the city or council, and/or ADEM.

(d) The director or his designee bearing proper credentials and identification shall be permitted to enter properties without delay at any reasonable time for the purposes of inspection, observation, measurement and sampling of the wastewater discharge to ensure that the discharge to the POTW is in accordance with the provisions of this chapter. Users shall allow the director ready access to all parts of the premises for the purposes of inspection, sampling, records examination and copying, and the performance of any additional duties.

(e) The director may, after informal notice to the discharger, take whatever steps are reasonably necessary to immediately temporarily suspend a user's sewer use permit, or impose temporary restrictions on discharges, or halt and prevent the discharge of pollutants to the POTW which reasonably appear to present an immediate endangerment to the health or welfare of persons. If the director determines that an industrial user's discharge to the POTW does not present an immediate endangerment to the health or welfare of persons, but presents or may present an endangerment to the environment or threatens to interfere with the operation of the POTW, he shall notify the discharger in writing setting forth sufficient facts to describe the violation and allowing a reasonable period of time, which shall be stated in the notice, to respond or to abate or correct the violation and if the response or actions of the discharger do not result in abatement and correction within such reasonable period of time, the director may take

action as reasonably necessary to halt or prevent the discharge.

Any user notified of a suspension of its discharge shall immediately stop or eliminate its contribution.

(f) In the event of a user's failure to voluntarily comply with the suspension order, the director shall take such steps as the director necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the POTW, its receiving stream, or endangerment to any individuals. The director shall allow the user to recommence its discharge when the user has demonstrated to the satisfaction of the city that the period of endangerment has passed, unless termination proceedings are initiated against the user.

A user that is responsible, in whole or in part, for any discharge presenting imminent endangerment shall submit a detailed written statement, describing the causes of the harmful contribution and the measures taken to prevent any future occurrence, to the director prior to the date of a public hearing set as follows below.

Nothing in this section shall be interpreted as requiring a hearing prior to any emergency suspension under this section.

(g) If an official who has a duty to perform under this Code and who has presented appropriate credentials has been refused access to private or public property, or any building, structure or land or any part thereof, and if such official has probable cause to believe that there may be a violation of this chapter or that this Code authorizes the official to conduct an inspection and/or collect one or more samples in order to verify compliance with this chapter or any permit or order issued under this chapter, or to protect the overall public health, safety and welfare of the community, then upon application by the city attorney to the municipal court judge and a showing of the above, the municipal court judge of the city shall issue a suitably restricted administrative warrant authorizing an official of the city to search the specific location subject to the warrant and to collect samples as may be necessary to determine compliance with this code. Any such warrant shall only be served at reasonable hours and only by the director or his authorized representative in the company of a uniformed police officer of the city.

(h) When, at any time, the director determines that a user(s) is contributing to the city's wastewater treatment facilities, any of the above enumerated substances in such amounts as to interfere with the operation of the city's wastewater treatment facilities, the city may:

1. *Notification of violation.* Whenever the director finds that any user has violated or is violating this chapter, a wastewater contribution permit or order issued under this chapter, or any other pretreatment standard or requirement, the director or his authorized representative may serve upon the user a written notice of violation. Within the time specified in the notice, thirty (30) days, the user shall submit an explanation of the violation and a permanent plan for the satisfactory correction and prevention thereof, including specific required actions, to the director. Submission of this plan in no way relieves the user of liability for any violation occurring before or after receipt of the notice of violation. Nothing in this section shall limit the authority of the director to take any action, including emergency actions or any other enforcement action, without first issuing a notice of violation.
2. *Consent orders.* The director is hereby empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with any user responsible for noncompliance. Any such orders will include specific action to be taken by the user to correct the noncompliance within a time period also specified in the order. Consent orders shall have the same force and effect as administrative orders issued pursuant to subsections (d) or (e) of this section.
3. *Show cause hearing.* The director may order any user which causes or contributes to a violation of this chapter, a violation of a wastewater contribution permit, or a violation of an order issued under this section, or a violation of any other pretreatment standard or requirement, to appear before the council and show cause why a proposed enforcement action should not be taken. Notice shall be served on the user specifying the time, place and location for the meeting, the proposed enforcement action, the reasons for such action, and a request that the user show cause why this proposed enforcement action should not be taken. The notice of the meeting may be served personally or by registered or certified mail, return receipt requested. Such notice may be served on any authorized representative of the user. Whether or not the user appears as ordered, immediate enforcement action may be pursued following the hearing. A show cause hearing shall not be a prerequisite for taking any other action against the user.
4. *Compliance orders.* When the director finds that a user has violated or continues to violate this chapter, wastewater contribution permits or orders issued under this article, or any other pretreatment standard or requirement, the director may issue an order to the user responsible for the discharge directing that the user come into compliance within a time as specified by the director. If the user does not come into compliance within the time specified by the director, the council may discontinue sewer service unless adequate treatment facilities, devices or other related appurtenances are installed and properly operated.

   Compliance orders may also contain other requirements to address the noncompliance, including additional self-monitoring and management practices designed to minimize the amount of pollutants discharged to the POTW. A compliance order may not extend the deadline for compliance established for a federal pretreatment standard or requirement, nor does a compliance order release the user of liability for any violation, including any continuing violation. Issuance of a compliance order shall not be a prerequisite to taking any other action against the user.

5. *Cease and desist orders.* When the director finds that a user is violating this chapter, the user's wastewater contribution permit, any order issued under this section, or any other pretreatment standard or requirement, or that the user's past violations are likely to recur, the council may issue an order, at the director's request, through the director to the user ordering it to cease and desist all such violations and directing the user to:
    a. Immediately comply with all requirements.
    b. Take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation, including halting operations and/or terminating the discharge.
6. *Issuance of order.* Issuance of a cease and desist order shall not be a prerequisite to taking any other action against the user.
7. *Issuance of administrative fine.* When the council finds that a user has violated or continues to violate any provision of this chapter, a wastewater discharge permit or order issued hereunder, or any other pretreatment standard or requirement, the council may fine such user a mitigating cost consisting of all costs associated with the city being forced to remedy the situation in order to comply with ADEM regulations, not exceeding $12,000.00. Such fines shall be assessed on a per occurrence violation, per day basis. In the case of monthly or other long-term average discharge limits, fines shall be assessed for each day during the period of violation.

    Users desiring to dispute such fines must file a written request for the director to reconsider the fine, along with full payment of the fine amount, within 15 days of being notified of the fine. The director shall convene a public hearing on the matter within 30 days of receiving the request from the user in the presence of the council. The director must notify the user in writing of the date, location, and time that the accused shall be heard before the council. If the council determines that the user's appeal is meritorious, then the fine shall be abated and returned to the user. If the council determines the appeal to be without merit, then the council may add administrative enforcement actions, such as notices and orders in addition to the fine.

(i) If a person violates this chapter, a wastewater contribution permit or any order issued under this article, the director may cause a municipal court summons to be issued and he may also request the city attorney to institute the appropriate legal proceedings to obtain an injunction to restrain, correct or abate such violation of the provisions of this Code.

(j) Penalties:
1. *Civil penalties.* Failure to comply with an order which has been duly posted, which interferes with the POTW or significantly contributes to any violation or requirement of the POTW's permit or any violation of any of the provisions of this chapter or the failure to comply with any order, permit, or certificate issued under the provisions of this chapter shall be subject to civil penalties not to exceed $1,000.00 per day per violation.

Section 3. All other sections of said Ordinance shall remain in full force and effect.

Section 4. That this ordinance shall take effect upon its passage and publication as required by law.

ADOPTED BY THE CITY COUNCIL this the 11th day of January, 2021.

Jerry G. Tidmore
President of the City Council

ATTEST:

Wesley A. Moore
City Clerk

APPROVED BY THE MAYOR this the 11th day of January, 2021.

Mayor

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

**Form 2A NPDES** | EPA

**U.S. Environmental Protection Agency**
**Application for NPDES Permit to Discharge Wastewater**
**NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS**

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MUNICIPAL SECTION

## SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))

### Facility Information

**1.1 Facility name**
Cullman WWTP

Mailing address (street or P.O. box)
P.O. Box 278

| City or town | State | ZIP code |
|---|---|---|
| Cullman | Alabama | 35056 |

| Contact name (first and last) | Title | Phone number | Email address |
|---|---|---|---|
| Jeff Adams | Superintendent | (256) 739-2410 | jadams@cullmanal.gov |

Location address (street, route number, or other specific identifier) ☐ Same as mailing address
1437 Welti Road

| City or town | State | ZIP code |
|---|---|---|
| Cullman | Alabama | 35055 |

**1.2** Is this application for a facility that has yet to commence discharge?
☐ Yes → See instructions on data submission requirements for new dischargers. ☑ No

### Applicant Information

**1.3** Is applicant different from entity listed under Item 1.1 above?
☑ Yes ☐ No → SKIP to Item 1.4.

Applicant name
City of Cullman

Applicant address (street or P.O. box)
P.O. Box 278

| City or town | State | ZIP code |
|---|---|---|
| Cullman | Alabama | 35056 |

| Contact name (first and last) | Title | Phone number | Email address |
|---|---|---|---|
| Woody Jacobs | Mayor | (256) 775-7102 | wjacobs@cullmanal.gov |

**1.4** Is the applicant the facility's owner, operator, or both? (Check only one response.)
☐ Owner ☐ Operator ☑ Both

**1.5** To which entity should the NPDES permitting authority send correspondence? (Check only one response.)
☐ Facility ☐ Applicant ☑ Facility and applicant (they are one and the same)

### Existing Environmental Permits

**1.6** Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)

**Existing Environmental Permits**

| | | |
|---|---|---|
| ☑ NPDES (discharges to surface water) AL0050423 | ☐ RCRA (hazardous waste) | ☐ UIC (underground injection control) |
| ☐ PSD (air emissions) | ☐ Nonattainment program (CAA) | ☐ NESHAPs (CAA) |
| ☐ Ocean dumping (MPRSA) | ☐ Dredge or fill (CWA Section 404) | ☐ Other (specify) |

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

**Collection System and Population Served**

1.7 Provide the collection system information requested below for the treatment works.

| Municipality Served | Population Served | Collection System Type (indicate percentage) | Ownership Status |
|---|---|---|---|
| City of Cullman | 14,225 | 100 % separate sanitary sewer<br>____ % combined storm and sanitary sewer<br>☐ Unknown | ☑ Own ☑ Maintain<br>☐ Own ☐ Maintain<br>☐ Own ☐ Maintain |
| Cullman County | 400 | 100 % separate sanitary sewer<br>____ % combined storm and sanitary sewer<br>☐ Unknown | ☑ Own ☑ Maintain<br>☐ Own ☐ Maintain<br>☐ Own ☐ Maintain |
| | | ____ % separate sanitary sewer<br>____ % combined storm and sanitary sewer<br>☐ Unknown | ☐ Own ☐ Maintain<br>☐ Own ☐ Maintain<br>☐ Own ☐ Maintain |
| | | ____ % separate sanitary sewer<br>____ % combined storm and sanitary sewer<br>☐ Unknown | ☐ Own ☐ Maintain<br>☐ Own ☐ Maintain<br>☐ Own ☐ Maintain |
| **Total Population Served** | 14,625 | | |

| Total percentage of each type of sewer line (in miles) | Separate Sanitary Sewer System | Combined Storm and Sanitary Sewer |
|---|---|---|
| | 100 % | % |

**Indian Country**

1.8 Is the treatment works located in Indian Country?

☐ Yes ☑ No

1.9 Does the facility discharge to a receiving water that flows through Indian Country?

☐ Yes ☑ No

**Design and Actual Flow Rates**

1.10 Provide design *and* actual flow rates in the designated spaces.

| Design Flow Rate |
|---|
| 7.00 mgd |

| Annual Average Flow Rates (Actual) | | |
|---|---|---|
| Two Years Ago | Last Year | This Year |
| 4.23 mgd | 4.25 mgd | 5.04 mgd |

| Maximum Daily Flow Rates (Actual) | | |
|---|---|---|
| Two Years Ago | Last Year | This Year |
| 20.06 mgd | 23.46 mgd | 19.01 mgd |

**Discharge Points by Type**

1.11 Provide the total number of effluent discharge points to waters of the United States by type.

| Total Number of Effluent Discharge Points by Type | | | | |
|---|---|---|---|---|
| Treated Effluent | Untreated Effluent | Combined Sewer Overflows | Bypasses | Constructed Emergency Overflows |
| 1 | | | | |

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MUNICIPAL SECTION

**Outfalls and Other Discharge or Disposal Methods**

**Outfalls Other Than to Waters of the United States**

1.12 Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States?

☐ Yes ☑ No ➔ SKIP to Item 1.14.

1.13 Provide the location of each surface impoundment and associated discharge information in the table below.

**Surface Impoundment Location and Discharge Data**

| Location | Average Daily Volume Discharged to Surface Impoundment | Continuous or Intermittent (check one) |
|---|---|---|
| | gpd | ☐ Continuous ☐ Intermittent |
| | gpd | ☐ Continuous ☐ Intermittent |
| | gpd | ☐ Continuous ☐ Intermittent |

1.14 Is wastewater applied to land?

☐ Yes ☑ No ➔ SKIP to Item 1.16.

1.15 Provide the land application site and discharge data requested below.

**Land Application Site and Discharge Data**

| Location | Size | Average Daily Volume Applied | Continuous or Intermittent (check one) |
|---|---|---|---|
| | acres | gpd | ☐ Continuous ☐ Intermittent |
| | acres | gpd | ☐ Continuous ☐ Intermittent |
| | acres | gpd | ☐ Continuous ☐ Intermittent |

1.16 Is effluent transported to another facility for treatment prior to discharge?

☐ Yes ☑ No ➔ SKIP to Item 1.21.

1.17 Describe the means by which the effluent is transported (e.g., tank truck, pipe).

1.18 Is the effluent transported by a party other than the applicant?

☐ Yes ☐ No ➔ SKIP to Item 1.20.

1.19 Provide information on the transporter below.

**Transporter Data**

| | | |
|---|---|---|
| Entity name | Mailing address (street or P.O. box) | |
| City or town | State | ZIP code |
| Contact name (first and last) | Title | |
| Phone number | Email address | |

**Outfalls and Other Discharge or Disposal Methods Continued**

1.20 In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility.

**Receiving Facility Data**

| | | |
|---|---|---|
| Facility name | Mailing address (street or P.O. box) | |
| City or town | State | ZIP code |
| Contact name (first and last) | Title | |
| Phone number | Email address | |
| NPDES number of receiving facility (if any) ☐ None | Average daily flow rate mgd | |

1.21 Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the United States (e.g., underground percolation, underground injection)?

☐ Yes ☑ No ➔ SKIP to Item 1.23.

1.22 Provide information in the table below on these other disposal methods.

**Information on Other Disposal Methods**

| Disposal Method Description | Location of Disposal Site | Size of Disposal Site | Annual Average Daily Discharge Volume | Continuous or Intermittent (check one) |
|---|---|---|---|---|
| | | acres | gpd | ☐ Continuous ☐ Intermittent |
| | | acres | gpd | ☐ Continuous ☐ Intermittent |
| | | acres | gpd | ☐ Continuous ☐ Intermittent |

**Variance Requests**

1.23 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Discharges into marine waters (CWA Section 301(h))

☐ Water quality related effluent limitation (CWA Section 302(b)(2))

☑ Not applicable

**Contractor Information**

1.24 Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?

☐ Yes ☑ No ➔ SKIP to Section 2.

1.25 Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities.

**Contractor Information**

| | Contractor 1 | Contractor 2 | Contractor 3 |
|---|---|---|---|
| Contractor name (company name) | | | |
| Mailing address (street or P.O. box) | | | |
| City, state, and ZIP code | | | |
| Contact name (first and last) | | | |
| Phone number | | | |
| Email address | | | |
| Operational and maintenance responsibilities of contractor | | | |

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

## SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))

**Outfalls to Waters of the United States**

**Design Flow**

2.1 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Section 3.

**Inflow and Infiltration**

2.2 Provide the treatment works' current average daily volume of inflow and infiltration.

| Average Daily Volume of Inflow and Infiltration |
|---|
| 900,000 gpd |

Indicate the steps the facility is taking to minimize inflow and infiltration.

The City of Cullman has initiated a four-phase sewer rehabilitation program to reduce infiltration/inflow within their collection system. This program is targeting areas identified through extensive flow monitoring as primary contributors of I/I. Construction of improvements in Phase I will commence in Spring 2021.

**Topographic Map**

2.3 Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

**Flow Diagram**

2.4 Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No See Attachment to Form 188, Section B,1 for Process Flow Schematic

**Scheduled Improvements and Schedules of Implementation**

2.5 Are improvements to the facility scheduled?

☑ Yes ☐ No ➔ SKIP to Section 3.

Briefly list and describe the scheduled improvements.

1. The existing mechanical bar screen at the South Outfall Pump Station is scheduled for replacement in 2021.
2. The existing mechanical bar screen at the WWTP headworks is scheduled to be rebuilt in 2021.
3. The primary trickling filter is scheduled to have a bearing/seal replacement in 2021.
4. SCADA upgrades and security camera installations are scheduled for 2021.

2.6 Provide scheduled or actual dates of completion for improvements.

**Scheduled or Actual Dates of Completion for Improvements**

| Scheduled Improvement (from above) | Affected Outfalls (list outfall number) | Begin Construction (MM/DD/YYYY) | End Construction (MM/DD/YYYY) | Begin Discharge (MM/DD/YYYY) | Attainment of Operational Level (MM/DD/YYYY) |
|---|---|---|---|---|---|
| 1. | OF011 | 07/01/2021 | 10/01/2021 | 10/01/2021 | 10/01/2021 |
| 2. | OF011 | 04/01/2021 | 10/01/2021 | 10/01/2021 | 10/01/2021 |
| 3. | OF011 | 05/01/2021 | 06/01/2021 | 06/01/2021 | 06/01/2021 |
| 4. | OF011 | 03/01/2021 | 05/01/2021 | 05/01/2021 | 05/01/2021 |

2.7 Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response.

☐ Yes ☐ No ☑ None required or applicable

Explanation:

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

## SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))

**Description of Outfalls**

3.1 Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)

| | Outfall Number 0011 | Outfall Number _____ | Outfall Number _____ |
|---|---|---|---|
| State | Alabama | | |
| County | Cullman | | |
| City or town | Cullman | | |
| Distance from shore | N/A ft. | ft. | ft. |
| Depth below surface | N/A ft. | ft. | ft. |
| Average daily flow rate | 5.04 mgd | mgd | mgd |
| Latitude | 34° 9′ 54″ N | ° ′ ″ | ° ′ ″ |
| Longitude | 86° 48′ 39″ W | ° ′ ″ | ° ′ ″ |

**Seasonal or Periodic Discharge Data**

3.2 Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges?

☐ Yes ☑ No ➔ SKIP to Item 3.4.

3.3 If so, provide the following information for each applicable outfall.

| | Outfall Number _____ | Outfall Number _____ | Outfall Number _____ |
|---|---|---|---|
| Number of times per year discharge occurs | | | |
| Average duration of each discharge (specify units) | | | |
| Average flow of each discharge | mgd | mgd | mgd |
| Months in which discharge occurs | | | |

**Diffuser Type**

3.4 Are any of the outfalls listed under Item 3.1 equipped with a diffuser?

☐ Yes ☑ No ➔ SKIP to Item 3.6.

3.5 Briefly describe the diffuser type at each applicable outfall.

| | Outfall Number _____ | Outfall Number _____ | Outfall Number _____ |
|---|---|---|---|
| | | | |

**Waters of the U.S.**

3.6 Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points?

☑ Yes ☐ No ➔ SKIP to Section 6.

**Receiving Water Description**

3.7 Provide the receiving water and related information (if known) for each outfall.

| | Outfall Number 0011 | Outfall Number _____ | Outfall Number _____ |
|---|---|---|---|
| Receiving water name | Eightmile Creek | | |
| Name of watershed, river, or stream system | Broglen | | |
| U.S. Soil Conservation Service 14-digit watershed code | 12031601090106 | | |
| Name of state management/river basin | Mulberry | | |
| U.S. Geological Survey 8-digit hydrologic cataloging unit code | 03160109 | | |
| Critical low flow (acute) | cfs | cfs | cfs |
| Critical low flow (chronic) | cfs | cfs | cfs |
| Total hardness at critical low flow | mg/L of $CaCO_3$ | mg/L of $CaCO_3$ | mg/L of $CaCO_3$ |

**Treatment Description**

3.8 Provide the following information describing the treatment provided for discharges from each outfall.

| | Outfall Number 0011 | Outfall Number _____ | Outfall Number _____ |
|---|---|---|---|
| **Highest Level of Treatment** (check all that apply per outfall) | ☑ Primary<br>☐ Equivalent to secondary<br>☑ Secondary<br>☐ Advanced<br>☐ Other (specify) _____ | ☐ Primary<br>☐ Equivalent to secondary<br>☐ Secondary<br>☐ Advanced<br>☐ Other (specify) _____ | ☐ Primary<br>☐ Equivalent to secondary<br>☐ Secondary<br>☐ Advanced<br>☐ Other (specify) _____ |
| **Design Removal Rates by Outfall** | | | |
| $BOD_5$ or $CBOD_5$ | 85 % | % | % |
| TSS | 85 % | % | % |
| Phosphorus | ☑ Not applicable % | ☐ Not applicable % | ☐ Not applicable % |
| Nitrogen | ☑ Not applicable % | ☐ Not applicable % | ☐ Not applicable % |
| Other (specify) _____ | ☐ Not applicable % | ☐ Not applicable % | ☐ Not applicable % |

**Treatment Description Continued**

3.9 Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below.

UV disinfection is utilized year-round.

| | Outfall Number 0011 | Outfall Number _____ | Outfall Number _____ |
|---|---|---|---|
| Disinfection type | UV | | |
| Seasons used | Year-round | | |
| Dechlorination used? | ☐ Not applicable<br>☐ Yes<br>☑ No | ☐ Not applicable<br>☐ Yes<br>☐ No | ☐ Not applicable<br>☐ Yes<br>☐ No |

**Effluent Testing Data**

3.10 Have you completed monitoring for all Table A parameters and attached the results to the application package?

☑ Yes ☐ No

3.11 Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points?

☑ Yes ☐ No ➔ SKIP to Item 3.13.

3.12 Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.

| | Outfall Number 0011 | | Outfall Number _____ | | Outfall Number _____ | |
|---|---|---|---|---|---|---|
| | Acute | Chronic | Acute | Chronic | Acute | Chronic |
| Number of tests of discharge water | | 11 | | | | |
| Number of tests of receiving water | | | | | | |

3.13 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Item 3.16.

3.14 Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent?

☐ Yes ➔ Complete Table B, including chlorine. ☑ No ➔ Complete Table B, omitting chlorine.

3.15 Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package?

☑ Yes ☐ No

3.16 Does one or more of the following conditions apply?

- The facility has a design flow greater than or equal to 1 mgd.
- The POTW has an approved pretreatment program or is required to develop such a program.
- The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E).

☑ Yes ➔ Complete Tables C, D, and E as applicable. ☐ No ➔ SKIP to Section 4.

3.17 Have you completed monitoring for all applicable Table C pollutants and attached the results to this application package?

☑ Yes ☐ No

3.18 Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package?

☑ Yes ☐ No additional sampling required by NPDES permitting authority.

**Effluent Testing Data Continued**

| | |
|---|---|
| 3.19 | Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years?<br>☑ Yes ☐ No ➔ Complete tests and Table E and SKIP to Item 3.26. |
| 3.20 | Have you previously submitted the results of the above tests to your NPDES permitting authority?<br>☑ Yes ☐ No ➔ Provide results in Table E and SKIP to Item 3.26. |
| 3.21 | Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results. |

| Date(s) Submitted (MM/DD/YYYY) | Summary of Results |
|---|---|
| 12/30/2020<br>10/28/2019<br>10/25/2018<br>11/13/2017<br>10/13/2016 | P.p. passed from 9/22/20 test; C.d. repeated with ERA lab. Samples from 11/17/20 and 11/10/20 passed.<br>P.p. passed from 9/19/17 test; C.d. repeated by Enersolv. Samples from 10/24/17 and 10/17/17 passed.<br>P.p. and C.d. passed in 2019, 2018 and 2016. |

| | |
|---|---|
| 3.22 | Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity?<br>☑ Yes ☐ No ➔ SKIP to Item 3.26. |
| 3.23 | Describe the cause(s) of the toxicity:<br>Use of damaged, or poor-quality organisms in the laboratory testing, confirmed by reproduction failure of C.Dubia in a controlled environment. |
| 3.24 | Has the treatment works conducted a toxicity reduction evaluation?<br>☐ Yes ☑ No ➔ SKIP to Item 3.26. |
| 3.25 | Provide details of any toxicity reduction evaluations conducted. |
| 3.26 | Have you completed Table E for all applicable outfalls and attached the results to the application package?<br>☐ Yes ☑ Not applicable because previously submitted information to the NPDES permitting authority. |

## SECTION 4. INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(j)(6) and (7))

**Industrial Discharges and Hazardous Wastes**

| | |
|---|---|
| 4.1 | Does the POTW receive discharges from SIUs or NSCIUs?<br>☑ Yes ☐ No ➔ SKIP to Item 4.7. |
| 4.2 | Indicate the number of SIUs and NSCIUs that discharge to the POTW. |

| Number of SIUs | Number of NSCIUs |
|---|---|
| 3 | |

| | |
|---|---|
| 4.3 | Does the POTW have an approved pretreatment program?<br>☑ Yes ☐ No |
| 4.4 | Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program?<br>☐ Yes ☑ No ➔ SKIP to Item 4.6. |
| 4.5 | Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7. |
| 4.6 | Have you completed and attached Table F to this application package?<br>☑ Yes ☐ No |

**Industrial Discharges and Hazardous Wastes Continued**

**4.7** Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261?

☐ Yes ☑ No ➔ SKIP to Item 4.9.

**4.8** If yes, provide the following information:

| Hazardous Waste Number | Waste Transport Method (check all that apply) | Annual Amount of Waste Received | Units |
|---|---|---|---|
| | ☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____ | | |
| | ☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____ | | |
| | ☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____ | | |

**4.9** Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA?

☐ Yes ☑ No ➔ SKIP to Section 5.

**4.10** Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)?

☐ Yes ➔ SKIP to Section 5. ☐ No

**4.11** Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW?

☐ Yes ☐ No

## SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(j)(8))

**CSO Map and Diagram**

**5.1** Does the treatment works have a combined sewer system?

☐ Yes ☑ No ➔ SKIP to Section 6.

**5.2** Have you attached a CSO system map to this application? (See instructions for map requirements.)

☐ Yes ☐ No

**5.3** Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.)

☐ Yes ☐ No

**CSO Outfall Description**

5.4 For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)

| | CSO Outfall Number ____ | CSO Outfall Number ____ | CSO Outfall Number ____ |
|---|---|---|---|
| City or town | | | |
| State and ZIP code | | | |
| County | | | |
| Latitude | ° ′ ″ | ° ′ ″ | ° ′ ″ |
| Longitude | ° ′ ″ | ° ′ ″ | ° ′ ″ |
| Distance from shore | ft. | ft. | ft. |
| Depth below surface | ft. | ft. | ft. |

**CSO Monitoring**

5.5 Did the POTW monitor any of the following items in the past year for its CSO outfalls?

| | CSO Outfall Number ____ | CSO Outfall Number ____ | CSO Outfall Number ____ |
|---|---|---|---|
| Rainfall | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |
| CSO flow volume | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |
| CSO pollutant concentrations | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Receiving water quality | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |
| CSO frequency | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Number of storm events | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes ☐ No |

**CSO Events in Past Year**

5.6 Provide the following information for each of your CSO outfalls.

| | CSO Outfall Number ____ | CSO Outfall Number ____ | CSO Outfall Number ____ |
|---|---|---|---|
| Number of CSO events in the past year | events | events | events |
| Average duration per event | hours ☐ Actual or ☐ Estimated | hours ☐ Actual or ☐ Estimated | hours ☐ Actual or ☐ Estimated |
| Average volume per event | million gallons ☐ Actual or ☐ Estimated | million gallons ☐ Actual or ☐ Estimated | million gallons ☐ Actual or ☐ Estimated |
| Minimum rainfall causing a CSO event in last year | inches of rainfall ☐ Actual or ☐ Estimated | inches of rainfall ☐ Actual or ☐ Estimated | inches of rainfall ☐ Actual or ☐ Estimated |

**CSO Receiving Waters**

5.7 Provide the information in the table below for each of your CSO outfalls.

| | CSO Outfall Number ____ | CSO Outfall Number ____ | CSO Outfall Number ____ |
|---|---|---|---|
| Receiving water name | | | |
| Name of watershed/ stream system | | | |
| U.S. Soil Conservation Service 14-digit watershed code (if known) | ☐ Unknown | ☐ Unknown | ☐ Unknown |
| | | | |
| Name of state management/river basin | | | |
| U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known) | ☐ Unknown | ☐ Unknown | ☐ Unknown |
| | | | |
| Description of known water quality impacts on receiving stream by CSO (see instructions for examples) | | | |

## SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

**Checklist and Certification Statement**

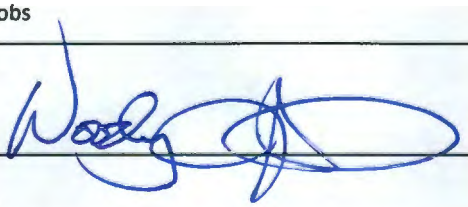
6.1 In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

| Column 1 | Column 2 | |
|---|---|---|
| ☑ Section 1: Basic Application Information for All Applicants | ☐ w/ variance request(s) | ☐ w/ additional attachments |
| ☑ Section 2: Additional Information | ☑ w/ topographic map<br>☐ w/ additional attachments | ☑ w/ process flow diagram |
| ☑ Section 3: Information on Effluent Discharges | ☑ w/ Table A<br>☑ w/ Table B<br>☑ w/ Table C | ☑ w/ Table D<br>☐ w/ Table E<br>☐ w/ additional attachments |
| ☑ Section 4: Industrial Discharges and Hazardous Wastes | ☐ w/ SIU and NSCIU attachments<br>☐ w/ additional attachments | ☑ w/ Table F |
| ☑ Section 5: Combined Sewer Overflows | ☐ w/ CSO map<br>☐ w/ CSO system diagram | ☐ w/ additional attachments |
| ☑ Section 6: Checklist and Certification Statement | ☐ w/ attachments | |

6.2 **Certification Statement**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 and imprisonment for knowing violations.*

| Name (print or type first and last name) | Official title |
|---|---|
| Woody Jacobs | Mayor |
| Signature | Date signed |



| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | 0011 |

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**TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS**

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Biochemical oxygen demand ☐ $BOD_5$ or ☑ $CBOD_5$ (report one) | 12 | mg/L | 6.8 | mg/L | 3 | 5210B | 2.00 ☐ ML ☑ MDL |
| Fecal coliform | *** | col/100 mL | <10 | col/100 mL | 1 | SM9222D | Varies ☐ ML ☐ MDL |
| Design flow rate | 20.84 | MGD | 4.51 | MGD | 3 | | |
| pH (minimum) | 6.0 | S.U. | | | | | |
| pH (maximum) | 8.2 | S.U. | | | | | |
| Temperature (winter) | *** | Degree, C | | | | | |
| Temperature (summer) | *** | Degree, C | | | | | |
| Total suspended solids (TSS) | 5.33 | mg/L | 4.80 | mg/L | 3 | USGS I-3765-85 | 2.50 ☐ ML ☑ MDL |

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | 0011 |



**TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD**

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Ammonia (as N) | 1.06 | mg/l | 0.520 | mg/l | 3 | SM 4500 NH3-C-2011 | 0.100 ☐ ML ☑ MDL |
| Chlorine (total residual, TRC)[2] | *** | mg/l | *** | mg/l | *** | *** | ☐ ML ☐ MDL |
| Dissolved oxygen | 7.7 | mg/l | 7.86 | mg/l | 60 | 10360 | 1.00 ☐ ML ☑ MDL |
| Nitrate/nitrite | 26.3 | mg/l | 15.32 | mg/l | 3 | 300 | 0.06 ☐ ML ☑ MDL |
| Kjeldahl nitrogen | 3.91 | mg/l | 2.31 | mg/l | 3 | 4500-Norg C | 1.50 ☐ ML ☑ MDL |
| Oil and grease | <5.81 | mg/l | <5.81 | mg/l | 3 | 1664A | 5.81 ☐ ML ☑ MDL |
| Phosphorus | 3.02 | mg/l | 2.39 | mg/l | 3 | EPA 365.3 | 1.00 ☐ ML ☑ MDL |
| Total dissolved solids | 422 | mg/l | 341 | mg/l | 3 | 2540 C-2011 | 1.00 ☐ ML ☑ MDL |

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

[2] Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

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| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | 0011 |

Form Approved 03/05/19
OMB No. 2040-0004

## TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| **Metals, Cyanide, and Total Phenols** | | | | | | | |
| Hardness (as $CaCO_3$) | 129 | mg/l | 122.5 | mg/l | 2 | 200.8 | 2.50 ☐ ML ☑ MDL |
| Antimony, total recoverable | <0.002 | mg/l | <0.002 | mg/l | 3 | 200.8 | 0.002 ☐ ML ☑ MDL |
| Arsenic, total recoverable | <0.001 | mg/l | <0.001 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Beryllium, total recoverable | <0.001 | mg/l | <0.001 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Cadmium, total recoverable | <0.001 | mg/l | <0.001 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Chromium, total recoverable | <0.001 | mg/l | <0.001 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Copper, total recoverable | 0.0131 | mg/l | 0.010 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Lead, total recoverable | <0.001 | mg/l | <0.001 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Mercury, total recoverable | 0.011 | ug/l | 0.007 | ug/l | 20 | 1631E | 0.00 ☐ ML ☑ MDL |
| Nickel, total recoverable | 0.0028 | mg/l | 0.00194 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Selenium, total recoverable | <0.002 | mg/l | <0.002 | mg/l | 3 | 200.8 | 0.002 ☐ ML ☑ MDL |
| Silver, total recoverable | <0.001 | mg/l | <0.001 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Thallium, total recoverable | <0.001 | mg/l | <0.001 | mg/l | 3 | 200.8 | 0.001 ☐ ML ☑ MDL |
| Zinc, total recoverable | 0.0338 | mg/l | 0.02397 | mg/l | 3 | 200.8 | 0.010 ☐ ML ☑ MDL |
| Cyanide | 0.012 | mg/l | 0.01088 | mg/l | 2 | ASTM D7511-09 | 0.005 ☐ ML ☑ MDL |
| Total phenolic compounds | <0.04 | mg/l | <0.04 | mg/l | 3 | 420.4 | 0.004 ☐ ML ☑ MDL |
| **Volatile Organic Compounds** | | | | | | | |
| Acrolein | <0.05 | mg/l | <0.05 | mg/l | 3 | 624.1 | 0.05 ☐ ML ☑ MDL |
| Acrylonitrile | <0.01 | mg/l | <0.01 | mg/l | 3 | 624.1 | 0.01 ☐ ML ☑ MDL |
| Benzene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Bromoform | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | 0011 |

Form Approved 03/05/19
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## TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Carbon tetrachloride | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Chlorobenzene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Chlorodibromomethane | <0.001 | mg/l | <0.001 | mg/l | 2 | 624.1 | 0.001 ☐ ML ☑ MDL |
| Chloroethane | <0.005 | mg/l | <0.005 | mg/l | 3 | 624.1 | 0.005 ☐ ML ☑ MDL |
| 2-chloroethylvinyl ether | <0.05 | mg/l | <0.05 | mg/l | 3 | 624.1 | 0.05 ☐ ML ☑ MDL |
| Chloroform | <0.005 | mg/l | <0.005 | mg/l | 3 | 624.1 | 0.005 ☐ ML ☑ MDL |
| Dichlorobromomethane | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| 1,1-dichloroethane | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| 1,2-dichloroethane | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| trans-1,2-dichloroethylene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| 1,1-dichloroethylene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| 1,2-dichloropropane | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| 1,3-dichloropropylene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Ethylbenzene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Methyl bromide | <0.005 | mg/l | <0.005 | mg/l | 3 | 624.1 | 0.005 ☐ ML ☑ MDL |
| Methyl chloride | <0.0025 | mg/l | <0.0025 | mg/l | 3 | 624.1 | 0.0025 ☐ ML ☑ MDL |
| Methylene chloride | <0.005 | mg/l | <0.005 | mg/l | 3 | 624.1 | 0.005 ☐ ML ☑ MDL |
| 1,1,2,2-tetrachloroethane | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Tetrachloroethylene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Toluene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| 1,1,1-trichloroethane | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| 1,1,2-trichloroethane | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
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## TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Trichloroethylene | <0.003 | mg/l | <0.003 | mg/l | 3 | 624.1 | 0.003 ☐ ML ☑ MDL |
| Vinyl chloride | <0.0015 | mg/l | <0.0015 | mg/l | 3 | 624.1 | 0.0015 ☐ ML ☑ MDL |
| **Acid-Extractable Compounds** | | | | | | | |
| p-chloro-m-cresol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 2-chlorophenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 2,4-dichlorophenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 2,4-dimethylphenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 4,6-dinitro-o-cresol | <0.05 | mg/l | <0.05 | mg/l | 3 | 625.1 | 0.05 ☐ ML ☑ MDL |
| 2,4-dinitrophenol | <0.05 | mg/l | <0.05 | mg/l | 3 | 625.1 | 0.05 ☐ ML ☑ MDL |
| 2-nitrophenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 4-nitrophenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Pentachlorophenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Phenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 2,4,6-trichlorophenol | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| **Base-Neutral Compounds** | | | | | | | |
| Acenaphthene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Acenaphthylene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Anthracene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Benzidine | <0.05 | mg/l | <0.05 | mg/l | 3 | 625.1 | 0.05 ☐ ML ☑ MDL |
| Benzo(a)anthracene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Benzo(a)pyrene | <0.0025 | mg/l | <0.0025 | mg/l | 3 | 625.1 | 0.0025 ☐ ML ☑ MDL |
| 3,4-benzofluoranthene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
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## TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| Benzo(ghi)perylene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Benzo(k)fluoranthene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Bis (2-chloroethoxy) methane | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Bis (2-chloroethyl) ether | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Bis (2-chloroisopropyl) ether | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Bis (2-ethylhexyl) phthalate | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 4-bromophenyl phenyl ether | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Butyl benzyl phthalate | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 2-chloronaphthalene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| 4-chlorophenyl phenyl ether | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Chrysene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| di-n-butyl phthalate | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| di-n-octyl phthalate | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Dibenzo(a,h)anthracene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 1,2-dichlorobenzene | <0.003 | mg/l | <0.003 | mg/l | 3 | 625.1 | 0.003 ☐ ML ☑ MDL |
| 1,3-dichlorobenzene | <0.003 | mg/l | <0.003 | mg/l | 3 | 625.1 | 0.003 ☐ ML ☑ MDL |
| 1,4-dichlorobenzene | <0.003 | mg/l | <0.003 | mg/l | 3 | 625.1 | 0.003 ☐ ML ☑ MDL |
| 3,3-dichlorobenzidine | <0.003 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.003 ☐ ML ☑ MDL |
| Diethyl phthalate | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Dimethyl phthalate | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 2,4-dinitrotoluene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 2,6-dinitrotoluene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |

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|---|---|---|---|
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## TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

| Pollutant | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| 1,2-diphenylhydrazine | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Fluoranthene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Fluorene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Hexachlorobenzene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Hexachlorobutadiene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Hexachlorocyclo-pentadiene | <0.01 | mg/l | <0.01 | mg/l | 2 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Hexachloroethane | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Indeno(1,2,3-cd)pyrene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Isophorone | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Naphthalene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Nitrobenzene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| N-nitrosodi-n-propylamine | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| N-nitrosodimethylamine | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| N-nitrosodiphenylamine | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| Phenanthrene | <0.005 | mg/l | <0.005 | mg/l | 3 | 625.1 | 0.005 ☐ ML ☑ MDL |
| Pyrene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |
| 1,2,4-trichlorobenzene | <0.01 | mg/l | <0.01 | mg/l | 3 | 625.1 | 0.01 ☐ ML ☑ MDL |

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
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## TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

| Pollutant (list) | Maximum Daily Discharge | | Average Daily Discharge | | | Analytical Method[1] | ML or MDL (include units) |
|---|---|---|---|---|---|---|---|
| | Value | Units | Value | Units | Number of Samples | | |
| ☐ No additional sampling is required by NPDES permitting authority. | | | | | | | |
| E.coli | 80 | col/100 ml | 37 | col/100 ml | 3 | mColiBlue-24 | 20.0 ☐ ML ☑ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |
| | | | | | | | ☐ ML ☐ MDL |

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
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## TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

| Test Information | Test Number ____ | Test Number ____ | Test Number ____ |
|---|---|---|---|
| Test species | | | |
| Age at initiation of test | | | |
| Outfall number | | | |
| Date sample collected | | | |
| Date test started | | | |
| Duration | | | |
| **Toxicity Test Methods** | | | |
| Test method number | | | |
| Manual title | | | |
| Edition number and year of publication | | | |
| Page number(s) | | | |
| **Sample Type** | | | |
| Check one: | ☐ Grab<br>☐ 24-hour composite | ☐ Grab<br>☐ 24-hour composite | ☐ Grab<br>☐ 24-hour composite |
| **Sample Location** | | | |
| Check one: | ☐ Before Disinfection<br>☐ After Disinfection<br>☐ After Dechlorination | ☐ Before Disinfection<br>☐ After Disinfection<br>☐ After Dechlorination | ☐ Before disinfection<br>☐ After disinfection<br>☐ After dechlorination |
| **Point in Treatment Process** | | | |
| Describe the point in the treatment process at which the sample was collected for each test. | | | |
| **Toxicity Type** | | | |
| Indicate for each test whether the test was performed to asses acute or chronic toxicity, or both. (Check one response.) | ☐ Acute<br>☐ Chronic<br>☐ Both | ☐ Acute<br>☐ Chronic<br>☐ Both | ☐ Acute<br>☐ Chronic<br>☐ Both |

## TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

| | Test Number ____ | Test Number ____ | Test Number ____ |
|---|---|---|---|
| **Test Type** | | | |
| Indicate the type of test performed. (Check one response.) | ☐ Static<br>☐ Static-renewal<br>☐ Flow-through | ☐ Static<br>☐ Static-renewal<br>☐ Flow-through | ☐ Static<br>☐ Static-renewal<br>☐ Flow-through |
| **Source of Dilution Water** | | | |
| Indicate the source of dilution water. (Check one response.) | ☐ Laboratory water<br>☐ Receiving water | ☐ Laboratory water<br>☐ Receiving water | ☐ Laboratory water<br>☐ Receiving water |
| If laboratory water, specify type. | | | |
| If receiving water, specify source. | | | |
| **Type of Dilution Water** | | | |
| Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used. | ☐ Fresh water<br>☐ Salt water (specify) | ☐ Fresh water<br>☐ Salt water (specify) | ☐ Fresh water<br>☐ Salt water (specify) |
| **Percentage Effluent Used** | | | |
| Specify the percentage effluent used for all concentrations in the test series. | | | |
| | | | |
| | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Parameters Tested** | | | | | | |
| Check the parameters tested. | ☐ pH<br>☐ Salinity<br>☐ Temperature | ☐ Ammonia<br>☐ Dissolved oxygen | ☐ pH<br>☐ Salinity<br>☐ Temperature | ☐ Ammonia<br>☐ Dissolved oxygen | ☐ pH<br>☐ Salinity<br>☐ Temperature | ☐ Ammonia<br>☐ Dissolved oxygen |

| | | | |
|---|---|---|---|
| **Acute Test Results** | | | |
| Percent survival in 100% effluent | % | % | % |
| $LC_{50}$ | | | |
| 95% confidence interval | % | % | % |
| Control percent survival | % | % | % |

## TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

| | Test Number ____ | | Test Number ____ | | Test Number ____ | |
|---|---|---|---|---|---|---|
| **Acute Test Results Continued** | | | | | | |
| Other (describe) | | | | | | |
| **Chronic Test Results** | | | | | | |
| NOEC | % | | % | | % | |
| $IC_{25}$ | % | | % | | % | |
| Control percent survival | % | | % | | % | |
| Other (describe) | | | | | | |
| **Quality Control/Quality Assurance** | | | | | | |
| Is reference toxicant data available? | ☐ Yes | ☐ No | ☐ Yes | ☐ No | ☐ Yes | ☐ No |
| Was reference toxicant test within acceptable bounds? | ☐ Yes | ☐ No | ☐ Yes | ☐ No | ☐ Yes | ☐ No |
| What date was reference toxicant test run (MM/DD/YYYY)? | | | | | | |
| Other (describe) | | | | | | |

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## TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

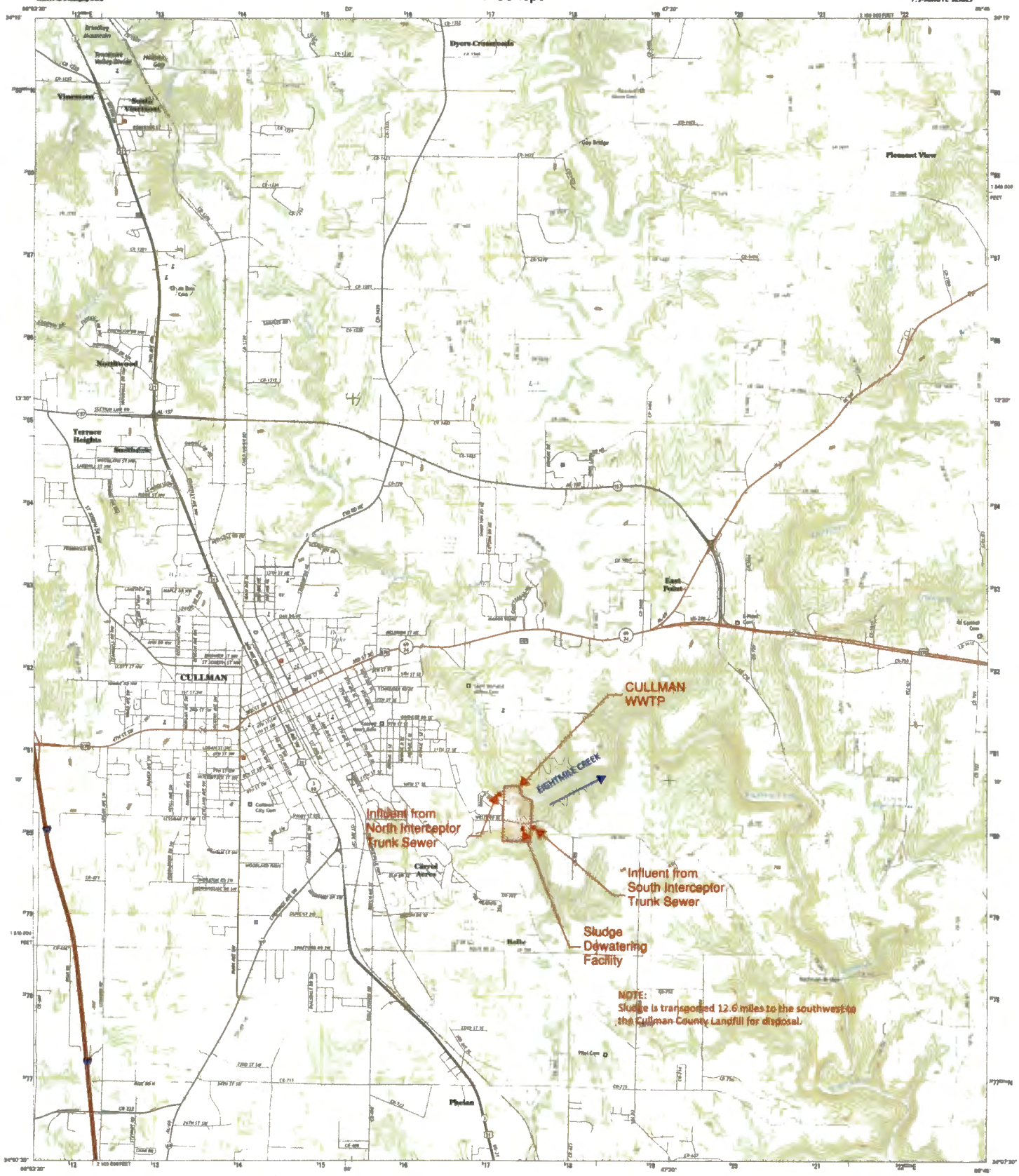
| | SIU 392200007 | SIU 392200441 | SIU 392201154 |
|---|---|---|---|
| Name of SIU | American Trim, LLC. | Rehau, Inc. | Reliance Worldwide Corporation |
| Mailing address (street or P.O. box) | 1909 Beech Avenue SE | 2424 Industrial Drive SW | 2400 7th Avenue SW |
| City, state, and ZIP code | Cullman, AL 35055 | Cullman, AL 35055 | Cullman, AL 35055 |
| Description of all industrial processes that affect or contribute to the discharge. | Metal Finishing | 3089 - Plastic injection molding, fabrication of plastic components, plumbing material production | 3088 - Plastics and Plumbing Fixtures Production and Fabrication |
| List the principal products and raw materials that affect or contribute to the SIU's discharge. | Powder coating including aqueous washing and phosphating, Alodine, boiler blowdown and cooling water. | Contact cooling water discharge, washdown discharge, Sodium Hydroxide, Hydrochloric Acid | Contact cooling water discharge and washdown discharge. |
| Indicate the average daily volume of wastewater discharged by the SIU. | 1,300 gpd | 180,000 gpd | 1,000 gpd |
| How much of the average daily volume is attributable to process flow? | gpd | gpd | gpd |
| How much of the average daily volume is attributable to non-process flow? | gpd | gpd | gpd |
| Is the SIU subject to local limits? | ☑ Yes ☐ No | ☑ Yes ☐ No | ☑ Yes ☐ No |
| Is the SIU subject to categorical standards? | ☑ Yes ☐ No | ☑ Yes ☐ No | ☑ Yes ☐ No |

## TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

| | SIU 392200007 | SIU 392200441 | SIU 392201154 |
|---|---|---|---|
| Under what categories and subcategories is the SIU subject? | N/A | N/A | N/A |
| Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU? | ☐ Yes ☑ No | ☐ Yes ☑ No | ☐ Yes ☑ No |
| If yes, describe. | | | |

Form 2A
Attachment to Section 2, 2.3
Topographic Map




U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

CULLMAN QUADRANGLE
ALABAMA-CULLMAN CO.
7.5-MINUTE SERIES

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 16S
10 000-foot ticks: Alabama Coordinate System of 1983 (west zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery ..... NAIP, December 2013
Roads ..... HERE, Q3 2013
Names ..... GNIS, 2013
Hydrography ..... National Hydrography Dataset, 2013
Contours ..... National Elevation Dataset, 2008
Boundaries ..... multiple sources; see metadata file 1972 - 2013

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.16

ROAD CLASSIFICATION

Alabama Quadrangles
1 Pisgah
2 Rid
3 Lacoochee Cave
4 West Point
5 Winona
6 Trimble
7 Bucksville
8 Gordon City

CULLMAN, AL
2014

USGS
NGA REF NO. U.S.GEOLOGICAL SURVEY

Division 3
ADEM Form 2F and associated attachments

| EPA Identification Number | NPDES Permit Number | Facility Name |
|---|---|---|
| | AL0050423 | Cullman WWTP |

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MAR 14 2021

Form 2F NPDES

EPA

**U.S Environmental Protection Agency**
**Application for NPDES Permit to Discharge Wastewater** MUNICIPAL SEC

**STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY**

## SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below

| Outfall Number | Receiving Water Name | Latitude | Longitude |
|---|---|---|---|
| 002S | Eightmile Creek | 34° 9′ 55.2″ N | 86° 48′ 48.2″ W |
| 003S | Eightmile Creek | 34° 9′ 56.4″ N | 86° 48′ 42″ W |
| 004S | Eightmile Creek | 34° 9′ 55.4″ N | 86° 48′ 40.8″ W |
| 005S | Eightmile Creek | 34° 9′ 53.9″ N | 86° 48′ 39.3″ W |
| 006S | Eightmile Creek | 34° 9′ 51.5″ N | 86° 48′ 38.3″ W |
| 007S | Ryan Creek | 34° 9′ 45.7″ N | 86° 48′ 37.9″ W |

## SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))

Improvements

2.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No → SKIP to Section 3.

2.2 Briefly identify each applicable project in the table below.

| Brief Identification and Description of Project | Affected Outfalls (list outfall numbers) | Source(s) of Discharge | Final Compliance Dates | |
|---|---|---|---|---|
| | | | Required | Projected |
| Additional Outfall Locations for Section 1<br>008S Ryan Creek 34° 9′ 45.0″ N 86° 48′ 35.7″ W<br>009S Ryan Creek 34° 9′ 41.0″ N 86° 48′ 38.0″ W | | | | |
| | | | | |
| | | | | |
| | | | | |

2.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item)

☐ Yes ☐ No

## SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

**Site Drainage Map**

3.1 Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)

☑ Yes ☐ No

## SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

**Pollutant Sources**

4.1 Provide information on the facility's pollutant sources in the table below.

| Outfall Number | Impervious Surface Area (within a mile radius of the facility) | | Total Surface Area Drained (within a mile radius of the facility) | |
|---|---|---|---|---|
| 002S | 1.7 | specify units AC | 8.5 | specify units AC |
| 003S | 0.1 | specify units AC | 1.2 | specify units AC |
| 004S | 0.1 | specify units AC | 0.7 | specify units AC |
| 005S | 0.1 | specify units AC | 1.1 | specify units AC |
| 006S | 0.1 | specify units AC | 1.7 | specify units AC |
| 007S | 0.1 | specify units AC | 3.9 | specify units AC |

4.2 Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)

Stored materials are not exposed to stormwater. Use of herbicides, pesticides and fertilizers is strictly limited at the site.

Additional Pollutant Sources for Section 4, Part 4.1

| | | |
|---|---|---|
| 008S | 0.1 AC | 1.4 AC |
| 009S | 0.04 AC | 0.1 AC |

4.3 Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)

| Stormwater Treatment | | |
|---|---|---|
| Outfall Number | Control Measures and Treatment | Codes from Exhibit 2F–1 (list) |
| 002S | 80% vegetated | |
| 003S | 92% vegetated | |
| 004S | 86% vegetated | |
| 005S | 91% vegetated | |
| 006S | 94% vegetated | |
| 007S | 97% vegetated | |

Additional Pollutant Sources for Section 4, Part 4.3

| | |
|---|---|
| 008S | 93% vegetated |
| 009S | 60% vegetated |

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

## SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

**Non-Stormwater Discharges**

5.1 *I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.*

| Name (print or type first and last name) | Official title |
|---|---|
| Woody Jacobs | Mayor |
| **Signature** | **Date signed** |

5.2 Provide the testing information requested in the table below.

| Outfall Number | Description of Testing Method Used | Date(s) of Testing | Onsite Drainage Points Directly Observed During Test |
|---|---|---|---|
| | Not Applicable | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

**Significant Leaks or Spills**

6.1 Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.

N/A

## SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

**Discharge Information**

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

7.1 Is this a new source or new discharge?

☐ Yes ➔ See instructions regarding submission of *estimated* data.

☑ No ➔ See instructions regarding submission of *actual* data.

**Tables A, B, C, and D**

7.2 Have you completed Table A for each outfall?

☑ Yes ☐ No

**Discharge Information Continued**

| | |
|---|---|
| 7.3 | Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater?<br>☐ Yes ☑ No ➔ SKIP to Item 7.5. |
| 7.4 | Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater?<br>☐ Yes ☐ No |
| 7.5 | Do you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge?<br>☐ Yes ☑ No ➔ SKIP to Item 7.7. |
| 7.6 | Have you listed all pollutants in Exhibit 2F–2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C?<br>☐ Yes ☐ No |
| 7.7 | Do you qualify for a small business exemption under the criteria specified in the Instructions?<br>☐ Yes ➔ SKIP to Item 7.18. ☑ No |
| 7.8 | Do you know or have reason to believe any pollutants in Exhibit 2F–3 are present in the discharge?<br>☐ Yes ☑ No ➔ SKIP to Item 7.10. |
| 7.9 | Have you listed all pollutants in Exhibit 2F–3 that you know or have reason to believe are present in the discharge in Table C?<br>☐ Yes ☐ No |
| 7.10 | Do you expect any of the pollutants in Exhibit 2F–3 to be discharged in concentrations of 10 ppb or greater?<br>☐ Yes ☑ No ➔ SKIP to Item 7.12. |
| 7.11 | Have you provided quantitative data in Table C for those pollutants in Exhibit 2F–3 that you expect to be discharged in concentrations of 10 ppb or greater?<br>☐ Yes ☐ No |
| 7.12 | Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater?<br>☐ Yes ☑ No ➔ SKIP to Item 7.14. |
| 7.13 | Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater?<br>☐ Yes ☐ No |
| 7.14 | Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)?<br>☑ Yes ☐ No |
| 7.15 | Do you know or have reason to believe any pollutants in Exhibit 2F–4 are present in the discharge?<br>☐ Yes ☑ No ➔ SKIP to Item 7.17. |
| 7.16 | Have you listed pollutants in Exhibit 2F–4 that you know or believe to be present in the discharge and provided an explanation in Table C?<br>☐ Yes ☐ No |
| 7.17 | Have you provided information for the storm event(s) sampled in Table D?<br>☑ Yes ☐ No |

Discharge Information Continued

**Used or Manufactured Toxics**

7.18 Is any pollutant listed on Exhibits 2F–2 through 2F–4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?

☐ Yes ☑ No ➔ SKIP to Section 8.

7.19 List the pollutants below, including TCDD if applicable.

| | | |
|---|---|---|
| 1. | 4. | 7. |
| 2. | 5. | 8. |
| 3. | 6. | 9. |

## SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))

Biological Toxicity Testing Data

8.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?

☐ Yes ☑ No ➔ SKIP to Section 9.

8.2 Identify the tests and their purposes below.

| Test(s) | Purpose of Test(s) | Submitted to NPDES Permitting Authority? | Date Submitted |
|---|---|---|---|
| | | ☐ Yes ☐ No | |
| | | ☐ Yes ☐ No | |
| | | ☐ Yes ☐ No | |

## SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))

Contract Analysis Information

9.1 Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 10.

9.2 Provide information for each contract laboratory or consulting firm below.

| | Laboratory Number 1 | Laboratory Number 2 | Laboratory Number 3 |
|---|---|---|---|
| Name of laboratory/firm | Pace Analytical/Enersolv | Southern Environmental | |
| Laboratory address | 2220 Beltline Road SW<br>Decatur, AL 35601 | 2919 Fairgrounds Road<br>Decatur, AL 35603 | |
| Phone number | (256) 350-0846 | (256) 350-0846 | |
| Pollutant(s) analyzed | E.Coli<br>Oil & Grease<br>Nitrate-Nitrite<br>TKN<br>CBOD<br>Phosphorus<br>Ammonia Nitrogen | E.Coli<br>Oil & Grease<br>Nitrate-Nitrite<br>TKN<br>CBOD<br>Phosphorus<br>Ammonia Nitrogen | |

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

## SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

**Checklist and Certification Statement**

10.1 In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

| Column 1 | Column 2 |
|---|---|
| ☑ Section 1 | ☐ w/ attachments (e.g., responses for additional outfalls) |
| ☑ Section 2 | ☐ w/ attachments |
| ☑ Section 3 | ☑ w/ site drainage map |
| ☑ Section 4 | ☐ w/ attachments |
| ☑ Section 5 | ☐ w/ attachments |
| ☑ Section 6 | ☐ w/ attachments |
| ☑ Section 7 | ☑ Table A ☐ w/ small business exemption request<br>☐ Table B ☐ w/ analytical results as an attachment<br>☑ Table C ☑ Table D |
| ☑ Section 8 | ☐ w/attachments |
| ☑ Section 9 | ☐ w/attachments (e.g., responses for additional contact laboratories or firms) |
| ☑ Section 10 | ☐ |

10.2 **Certification Statement**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 and imprisonment for knowing violations.*

| Name (print or type first and last name) | Official title |
|---|---|
| Woody Jacobs | Mayor |
| Signature | Date signed |

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | 002S |

Form Approved 03/05/19
OMB No. 2040-0004

**TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]**

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

| | Pollutant or Parameter | Maximum Daily Discharge (specify units) | | Average Daily Discharge (specify units) | | Number of Storm Events Sampled | Source of Information (new source/new dischargers only; use codes in instructions) |
|---|---|---|---|---|---|---|---|
| | | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | | |
| 1. | Oil and grease | <5.00 | | <5.00 | | 4 | |
| 2. | Biochemical oxygen demand (BOD5) | *** | *** | *** | *** | 0 | |
| 3. | Chemical oxygen demand (COD) | 128 | *** | 34.3 | *** | 5 | |
| 4. | Total suspended solids (TSS) | 282 | *** | 76.0 | *** | 5 | |
| 5. | Total phosphorus | 3.94 | *** | 1.58 | *** | 5 | |
| 6. | Total Kjeldahl nitrogen (TKN) | 6.79 | *** | 2.55 | *** | 5 | |
| 7. | Total nitrogen (as N) | 1.67 | *** | 0.72 | *** | 5 | |
| 8. | pH (minimum) | 6.62 | | 7.15 | | 5 | |
| | pH (maximum) | 7.84 | | *** | | 5 | |

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | 009S |

Form Approved 03/05/19
OMB No. 2040-0004

**TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]**

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

| | Pollutant or Parameter | Maximum Daily Discharge (specify units) | | Average Daily Discharge (specify units) | | Number of Storm Events Sampled | Source of Information (new source/new dischargers only; use codes in instructions) |
|---|---|---|---|---|---|---|---|
| | | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | | |
| 1. | Oil and grease | <5.00 | | <5.00 | | 4 | |
| 2. | Biochemical oxygen demand ($BOD_5$) | *** | *** | *** | *** | 0 | |
| 3. | Chemical oxygen demand (COD) | 16.0 | *** | 10.0 | *** | 5 | |
| 4. | Total suspended solids (TSS) | 282 | *** | 76.0 | *** | 5 | |
| 5. | Total phosphorus | 1.32 | *** | 1.06 | *** | 5 | |
| 6. | Total Kjeldahl nitrogen (TKN) | <1.50 | *** | <1.50 | *** | 5 | |
| 7. | Total nitrogen (as N) | 0.775 | *** | 0.404 | *** | 5 | |
| 8. | pH (minimum) | 6.70 | | 7.16 | | 5 | |
| | pH (maximum) | 7.46 | | *** | | 5 | |

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

Form Approved 03/05/19
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**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))[1]**

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

| Pollutant and CAS Number (if available) | Maximum Daily Discharge (specify units) | | Average Daily Discharge (specify units) | | Number of Storm Events Sampled | Source of Information (new source/new dischargers only; use codes in instructions) |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | | |
| Not Applicable | | | | | | |
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[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

Form Approved 03/05/19
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**TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]**

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

| Pollutant and CAS Number (if available) | Maximum Daily Discharge (specify units) | | Average Daily Discharge (specify units) | | Number of Storm Events Sampled | Source of Information (new source/new dischargers only; use codes in instructions) |
|---|---|---|---|---|---|---|
| | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | Grab Sample Taken During First 30 Minutes | Flow-Weighted Composite | | |
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No pollutant concentrations are expected to be present at the representative stormwater outfall locations.

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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## TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

| Date of Storm Event | Duration of Storm Event (in hours) | Total Rainfall During Storm Event (in inches) | Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event | Maximum Flow Rate During Rain Event (in gpm or specify units) | Total Flow from Rain Event (in gallons or specify units) |
|---|---|---|---|---|---|
| 04/26/2018 | 2.08 | 8.4 | | 380 | |

Provide a description of the method of flow measurement or estimate.

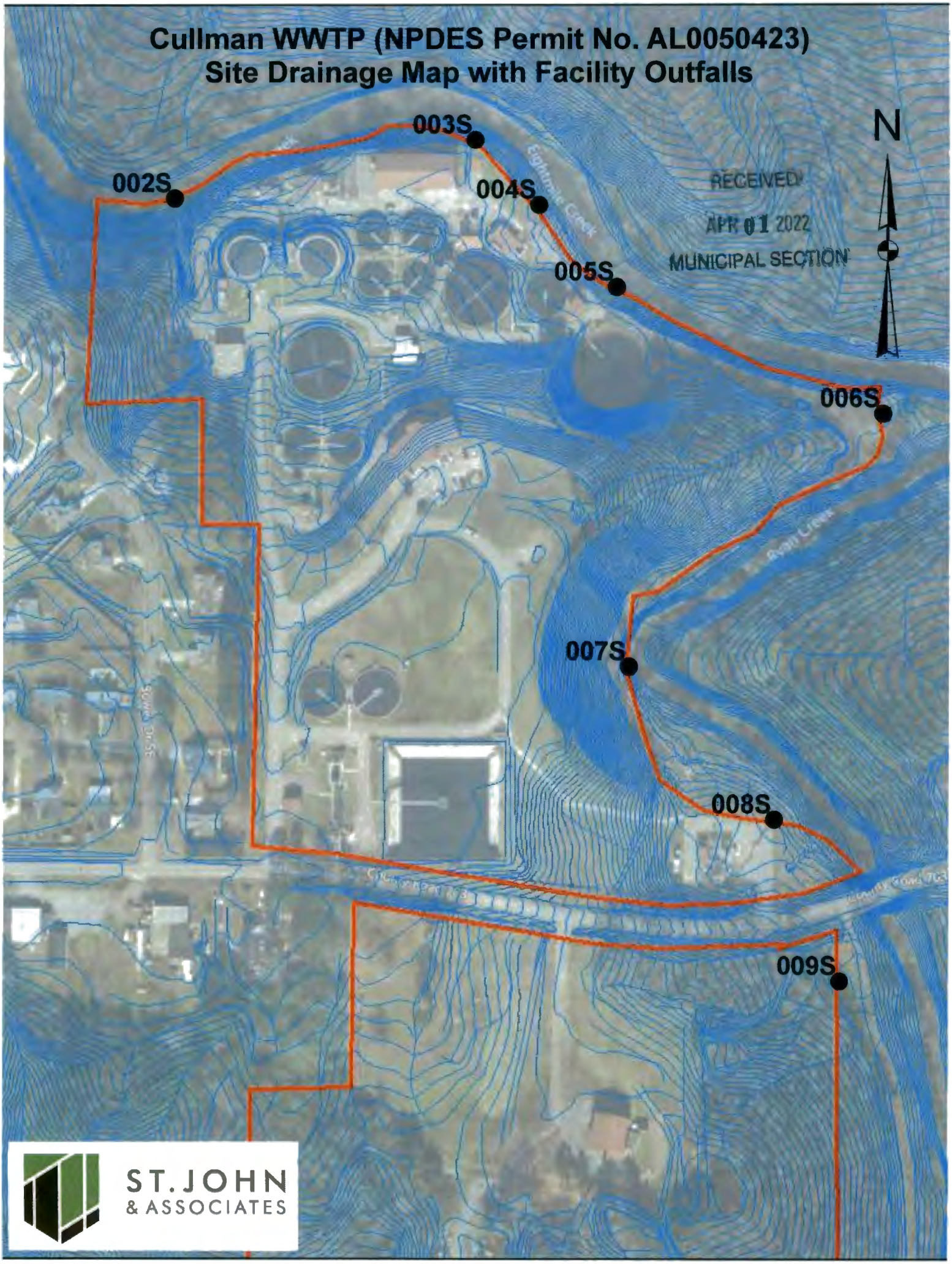
Rational Method Utilized for Flow Estimate.

Form 2F
Attachment to Section 3, 3.1
Site Drainage Map

Representative Outfall
002S
003S
004S
005S
006S
007S
008S
Representative Outfall
009S
Google earth
N
1000 ft

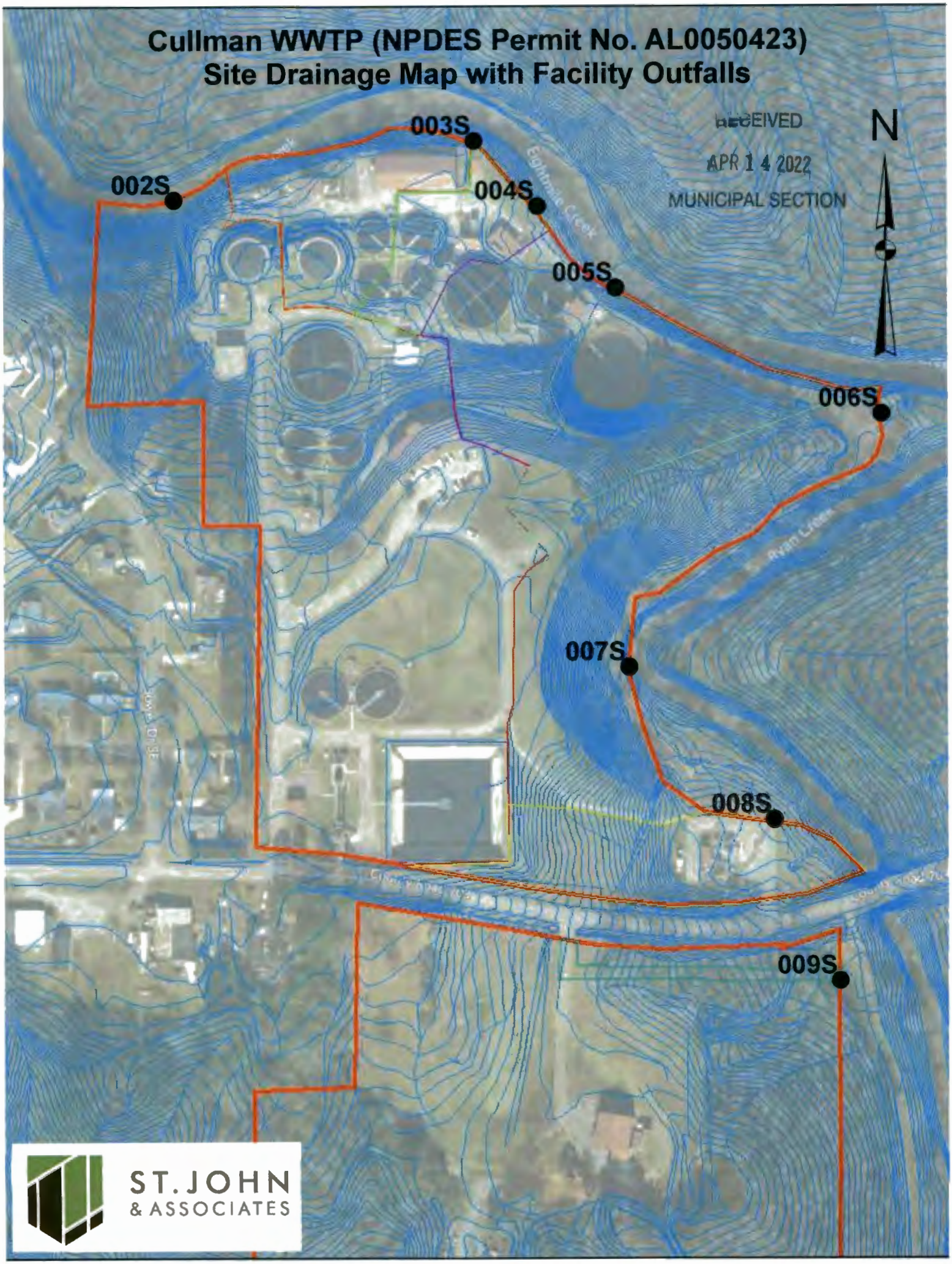
Division 4
ADEM Form 2S

# Cullman WWTP (NPDES Permit No. AL0050423)
# Site Drainage Map with Facility Outfalls



# Cullman WWTP (NPDES Permit No. AL0050423)
# Site Drainage Map with Facility Outfalls

RECEIVED
APR 14 2022
MUNICIPAL SECTION




ST. JOHN
& ASSOCIATES

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

**Form 2S NPDES**

**U.S Environmental Protection Agency**
**Application for NPDES Permit for Sewage Sludge Management**
**NEW AND EXISTING TREATMENT WORKS TREATING DOMESTIC SEWAGE**

## PRELIMINARY INFORMATION

Does your facility currently have an effective NPDES permit or have you been directed by your NPDES permitting authority to submit a full Form 2S permit application?

☑ Yes ➔ Complete Part 2 of application package (begins p. 7). ☐ No ➔ Complete Part 1 of application package (below).

## PART 1 — LIMITED BACKGROUND INFORMATION (40 CFR 122.21(c)(2)(ii))

Complete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not applying for, an NPDES permit for a direct discharge to a surface body of water).

### PART 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A))

**Facility Information**

| | | | | |
|---|---|---|---|---|
| 1.1 | Facility name | | | |
| | Mailing address (street or P.O. box) | | | |
| | City or town | | State | ZIP code |
| | Contact name (first and last) | Title | Phone number | Email address |
| | Location address (street, route number, or other specific identifier) ☐ Same as mailing address | | | |
| | City or town | | State | ZIP code |
| 1.2 | **Ownership Status** | | | |
| | ☐ Public—federal ☐ Public—state ☐ Other public (specify)_____ ☐ Private ☐ Other (specify) _____ | | | |

### PART 1, SECTION 2. APPLICANT INFORMATION (40 CFR 122.21(c)(2)(ii)(B))

**Applicant Information**

| | | | | |
|---|---|---|---|---|
| 2.1 | Is applicant different from entity listed under Item 1.1 above? ☐ Yes ☐ No ➔ SKIP to Item 2.3 (Part 1, Section 2). | | | |
| 2.2 | Applicant name | | | |
| | Applicant address (street or P.O. box) | | | |
| | City or town | | State | ZIP code |
| | Contact name (first and last) | Title | Phone number | Email address |
| 2.3 | Is the applicant the facility's owner, operator, or both? (Check only one response.) ☐ Owner ☐ Operator ☐ Both | | | |
| 2.4 | To which entity should the NPDES permitting authority send correspondence? (Check only one response.) ☐ Facility ☐ Applicant ☐ Facility and applicant (they are one and the same) | | | |

### PART 1, SECTION 3. SEWAGE SLUDGE AMOUNT (40 CFR 122.21(c)(2)(ii)(D))

**Sewage Sludge Amount**

3.1 Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, treated, used, and disposed of:

| Practice | Dry Metric Tons per 365-Day Period |
|---|---|
| Amount generated at the facility | |
| Amount treated at the facility | |
| Amount used (i.e., received from off site) at the facility | |
| Amount disposed of at the facility | |

| EPA Identification Number | NPDES Permit Number | Facility Name | Form Approved 03/05/19 OMB No. 2040-0004 |
|---|---|---|---|
| | AL0050423 | Cullman WWTP | |

**PART 2** — **PERMIT APPLICATION INFORMATION (40 CFR 122.21(q))**

Complete this part if you have an effective NPDES permit or have been directed by the NPDES permitting authority to submit a full permit application. In other words, complete this part if your facility has, or is applying for, an NPDES permit.
Part 2 is divided into five sections. Section 1 pertains to all applicants. The applicability of Sections 2 to 5 depends on your facility's sewage sludge use or disposal practices. See the instructions to determine which sections you are required to complete.

## PART 2, SECTION 1. GENERAL INFORMATION (40 CFR 122.21(q)(1 7) AND (q)(13))

**General Information**

All Part 2 applicants must complete this section.

**Facility Information**

| | | | | |
|---|---|---|---|---|
| 1.1 | Facility name: Cullman WWTP | | | |
| | Mailing address (street or P.O. box): P.O. Box 278 | | | |
| | City or town: Cullman | State: Alabama | ZIP code: 35056 | Phone number: (256) 739-2410 |
| | Contact name (first and last): Jeff Adams | Title: Superintendent | Email address: jadams@cullmanal.gov | |
| | Location address (street, route number, or other specific identifier): 1437 Welti Road ☐ Same as mailing address | | | |
| | City or town: Cullman | State: Alabama | ZIP code: 35055 | |
| 1.2 | Is this facility a Class I sludge management facility? ☑ Yes ☐ No | | | |
| 1.3 | **Facility Design Flow Rate** | 7.00 million gallons per day (mgd) | | |
| 1.4 | **Total Population Served** | 14,625 | | |
| 1.5 | **Ownership Status** | | | |
| | ☐ Public—federal ☑ Public—state ☐ Other public (specify) _____ ☐ Private ☐ Other (specify) _____ | | | |

**Applicant Information**

| | | | | |
|---|---|---|---|---|
| 1.6 | Is applicant different from entity listed under Item 1.1 above? ☑ Yes ☐ No → SKIP to Item 1.8 (Part 2, Section 1). | | | |
| 1.7 | Applicant name: City of Cullman | | | |
| | Applicant mailing address (street or P.O. box): P.O. Box 278 | | | |
| | City or town: Cullman | | State: Alabama | ZIP code: 35056 |
| | Contact name (first and last): Woody Jacobs | Title: Mayor | Phone number: (256) 775-7102 | Email address: wjacobs@cullmanal.gov |
| 1.8 | Is the applicant the facility's owner, operator, or both? (Check only one response.) ☐ Operator ☐ Owner ☑ Both | | | |
| 1.9 | To which entity should the NPDES permitting authority send correspondence? (Check only one response.) ☐ Facility ☐ Applicant ☑ Facility and applicant (they are one and the same) | | | |

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MUNICIPAL SECTION

| | | |
|---|---|---|
| 1.10 | Facility's NPDES permit number<br>☐ Check here if you do not have an NPDES permit but are otherwise required to submit Part 2 of Form 2S. | AL0050423 |

1.11 Indicate all other federal, state, and local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices below.

✔

| | | |
|---|---|---|
| ☐ RCRA (hazardous wastes) | ☐ Nonattainment program (CAA) | ☐ NESHAPs (CAA) |
| ☐ PSD (air emissions) | ☐ Dredge or fill (CWA Section 404) | ☐ Other (specify) |
| ☐ Ocean dumping (MPRSA) | ☐ UIC (underground injection of fluids) | |

**Indian Country**

1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occur in Indian Country?

☐ Yes ☑ No ➔ SKIP to Item 1.14 (Part 2, Section 1) below.

1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs.

**Topographic Map**

1.14 Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)

☑ Yes ☐ No See Attachment to Form 2A, Section 2, 2.3 for Topographic Map

**Line Drawing**

1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that will be employed during the term of the permit containing all the required information to this application? (See instructions for specific requirements.) See Attachment to Form 188, Section B, 1 for Process Flow Schematic

☑ Yes ☐ No

**Contractor Information**

1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treatment, use, or disposal at the facility?

☐ Yes ☑ No ➔ SKIP to Item 1.18 (Part 2, Section 1) below.

1.17 Provide the following information for each contractor.

☐ Check here if you have attached additional sheets to the application package.

| | Contractor 1 | Contractor 2 | Contractor 3 |
|---|---|---|---|
| Contractor company name | | | |
| Mailing address (street or P.O. box) | | | |
| City, state, and ZIP code | | | |
| Contact name (first and last) | | | |
| Telephone number | | | |
| Email address | | | |

General Information Continued

| 1.17 cont. | | Contractor 1 | Contractor 2 | Contractor 3 |
|---|---|---|---|---|
| | Responsibilities of contractor | | | |

**Pollutant Concentrations**

Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR 503 for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than 4.5 years old.

☐ Check here if you have attached additional sheets to the application package.

1.18

| Pollutant | Average Monthly Concentration (mg/kg dry weight) | Analytical Method | Detection Level |
|---|---|---|---|
| Arsenic | <0.10 mg/l | 6010B | <0.10 mg/l |
| Cadmium | <0.10 mg/l | 6010B | <0.10 mg/l |
| Chromium | <0.10 mg/l | 6010B | <0.10 mg/l |
| Copper | *** | *** | *** |
| Lead | <0.10 mg/l | 6010B | <0.10 mg/l |
| Mercury | <0.10 mg/l | 7470A | <0.10 mg/l |
| Molybdenum | *** | *** | *** |
| Nickel | *** | *** | *** |
| Selenium | <0.20 mg/l | 6010B | <0.20 mg/l |
| Zinc | *** | *** | *** |

**Checklist and Certification Statement**

1.19 In Column 1 below, mark the sections of Form 2S, Part 2, that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing. Note that not all applicants are required to complete all sections or provide attachments. See Exhibit 2S–2 in the Instructions.

| Column 1 | Column 2 |
|---|---|
| ☐ Section 1 (General Information) | ☐ w/ attachments |
| ☑ Section 2 (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge) | ☐ w/ attachments |
| ☐ Section 3 (Land Application of Bulk Sewage Sludge) | ☐ w/ attachments |
| ☐ Section 4 (Surface Disposal) | ☐ w/ attachments |
| ☐ Section 5 (Incineration) | ☐ w/ attachments |

1.20 **Certification Statement**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 and imprisonment for knowing violations.*

| Name (print or type first and last name) | Official title |
|---|---|
| Woody Jacobs | Mayor |
| Signature | Date signed |
| Telephone number (256) 775-7102 | |

Upon the request of the NPDES permitting authority, you must submit any other information the authority deems necessary to assess sewage sludge use or disposal practices at your facility and identify appropriate permitting requirements.

## PART 2, SECTION 2. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE (40 CFR 122.21(q)(8) THROUGH (12))

**Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge**

**2.1** Does your facility generate sewage sludge or derive a material from sewage sludge?

☑ Yes ☐ No ➔ SKIP to Part 2, Section 3.

**Amount Generated Onsite**

**2.2** Total dry metric tons per 365-day period generated at your facility: 287

**Amount Received from Off Site Facility**

**2.3** Does your facility receive sewage sludge from another facility for treatment use or disposal?

☐ Yes ☑ No ➔ SKIP to Item 2.7 (Part 2, Section 2) below.

**2.4** Indicate the total number of facilities from which you receive sewage sludge for treatment, use, or disposal:

Provide the following information for each of the facilities from which you receive sewage sludge.

☐ Check here if you have attached additional sheets to the application package.

**2.5**

| | | | |
|---|---|---|---|
| Name of facility | | | |
| Mailing address (street or P.O. box) | | | |
| City or town | | State | ZIP code |
| Contact name (first and last) | Title | Phone number | Email address |
| Location address (street, route number, or other specific identifier) | | | ☐ Same as mailing address |
| City or town | | State | ZIP code |
| County | | County code | ☐ Not available |

**2.6** Indicate the amount of sewage sludge received, the applicable pathogen class and reduction alternative, and the applicable vector reduction option provided at the offsite facility.

| Amount (dry metric tons) | Pathogen Class and Reduction Alternative | Vector Attraction Reduction Option |
|---|---|---|
| | ☐ Not applicable<br>☐ Class A, Alternative 1<br>☐ Class A, Alternative 2<br>☐ Class A, Alternative 3<br>☐ Class A, Alternative 4<br>☐ Class A, Alternative 5<br>☐ Class A, Alternative 6<br>☐ Class B, Alternative 1<br>☐ Class B, Alternative 2<br>☐ Class B, Alternative 3<br>☐ Class B, Alternative 4<br>☐ Domestic septage, pH adjustment | ☐ Not applicable<br>☐ Option 1<br>☐ Option 2<br>☐ Option 3<br>☐ Option 4<br>☐ Option 5<br>☐ Option 6<br>☐ Option 7<br>☐ Option 8<br>☐ Option 9<br>☐ Option 10<br>☐ Option 11 |

**2.7** Identify the treatment process(es) that are known to occur at the offsite facility, including blending activities and treatment to reduce pathogens or vector attraction properties. (Check all that apply.)

| | |
|---|---|
| ☐ Preliminary operations (e.g., sludge grinding and degritting) | ☐ Thickening (concentration) |
| ☐ Stabilization | ☐ Anaerobic digestion |
| ☐ Composting | ☐ Conditioning |
| ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization) | ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons) |
| ☐ Heat drying | ☐ Thermal reduction |
| ☐ Methane or biogas capture and recovery | ☐ Other (specify) _____ |

Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

**Treatment Provided at Your Facility**

2.8 For each sewage sludge use or disposal practice, indicate the applicable pathogen class and reduction alternative and the applicable vector attraction reduction option provided at your facility. Attach additional pages, as necessary.

| Use or Disposal Practice (check one) | Pathogen Class and Reduction Alternative | Vector Attraction Reduction Option |
|---|---|---|
| ☐ Land application of bulk sewage | ☐ Not applicable | ☑ Not applicable |
| ☐ Land application of biosolids (bulk) | ☐ Class A, Alternative 1 | ☐ Option 1 |
| ☐ Land application of biosolids (bags) | ☐ Class A, Alternative 2 | ☐ Option 2 |
| ☑ Surface disposal in a landfill | ☐ Class A, Alternative 3 | ☐ Option 3 |
| ☐ Other surface disposal | ☐ Class A, Alternative 4 | ☐ Option 4 |
| ☐ Incineration | ☐ Class A, Alternative 5 | ☐ Option 5 |
| | ☐ Class A, Alternative 6 | ☐ Option 6 |
| | ☐ Class B, Alternative 1 | ☐ Option 7 |
| | ☑ Class B, Alternative 2 | ☐ Option 8 |
| | ☐ Class B, Alternative 3 | ☐ Option 9 |
| | ☐ Class B, Alternative 4 | ☐ Option 10 |
| | ☐ Domestic septage, pH adjustment | ☐ Option 11 |

2.9 Identify the treatment process(es) used at your facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge? (Check all that apply.)

- ☐ Preliminary operations (e.g., sludge grinding and degritting)
- ☐ Stabilization
- ☐ Composting
- ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)
- ☐ Heat drying
- ☐ Methane or biogas capture and recovery
- ☑ Thickening (concentration)
- ☑ Anaerobic digestion
- ☐ Conditioning
- ☑ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)
- ☐ Thermal reduction

2.10 Describe any other sewage sludge treatment or blending activities not identified in Items 2.8 and 2.9 (Part 2, Section 2) above.

☐ Check here if you have attached the description to the application package.

Once sludge is drawn off clarifiers, it is conveyed to a sludge thickener and on to the anaerobic digesters. An Ashbrook belt press is utilized for dewatering prior to transport for disposal at the landfill.

**Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements, and One of Vector Attraction Reduction Options 1 to 8**

2.11 Does the sewage sludge from your facility meet the ceiling concentrations in Table 1 of 40 CFR 503.13, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), *and* one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)–(8) and is it land applied?

☐ Yes ☑ No ➔ SKIP to Item 2.14 (Part 2, Section 2) below.

2.12 Total dry metric tons per 365-day period of sewage sludge subject to this subsection that is applied to the land:

2.13 Is sewage sludge subject to this subsection placed in bags or other containers for sale or give-away for application to the land?

☐ Yes ☐ No

☐ Check here once you have completed Items 2.11 to 2.13, then ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

**Sale or Give-Away in a Bag or Other Container for Application to the Land**

2.14 Do you place sewage sludge in a bag or other container for sale or give-away for land application?

☐ Yes ☑ No ➔ SKIP to Item 2.17 (Part 2, Section 2) below.

2.15 Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land:

2.16 Attach a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.

☐ Check here to indicate that you have attached all labels or notices to this application package.

☐ Check here once you have completed Items 2.14 to 2.16, then ➔ SKIP to Part 2, Section 2, Item 2.32.

**Shipment Off Site for Treatment or Blending**

2.17 Does another facility provide treatment or blending of your facility's sewage sludge? (This question does not pertain to dewatered sludge sent directly to a land application or surface disposal site.)

☐ Yes ☑ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

2.18 Indicate the total number of facilities that provide treatment or blending of your facility's sewage sludge. Provide the information in Items 2.19 to 2.26 (Part 2, Section 2) below for each facility.

☐ Check here if you have attached additional sheets to the application package.

2.19 Name of receiving facility

Mailing address (street or P.O. box)

| City or town | | State | ZIP code |
|---|---|---|---|
| Contact name (first and last) | Title | Phone number | Email address |

Location address (street, route number, or other specific identifier) ☐ Same as mailing address

| City or town | State | ZIP code |
|---|---|---|

2.20 Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:

2.21 Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility or reduce the vector attraction properties of sewage sludge from your facility?

☐ Yes ☐ No ➔ SKIP to Item 2.24 (Part 2, Section 2) below.

2.22 Indicate the pathogen class and reduction alternative and the vector attraction reduction option met for the sewage sludge at the receiving facility.

| Pathogen Class and Reduction Alternative | Vector Attraction Reduction Option |
|---|---|
| ☐ Not applicable | ☐ Not applicable |
| ☐ Class A, Alternative 1 | ☐ Option 1 |
| ☐ Class A, Alternative 2 | ☐ Option 2 |
| ☐ Class A, Alternative 3 | ☐ Option 3 |
| ☐ Class A, Alternative 4 | ☐ Option 4 |
| ☐ Class A, Alternative 5 | ☐ Option 5 |
| ☐ Class A, Alternative 6 | ☐ Option 6 |
| ☐ Class B, Alternative 1 | ☐ Option 7 |
| ☐ Class B, Alternative 2 | ☐ Option 8 |
| ☐ Class B, Alternative 3 | ☐ Option 9 |
| ☐ Class B, Alternative 4 | ☐ Option 10 |
| ☐ Domestic septage, pH adjustment | ☐ Option 11 |

Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

**2.23** Which treatment process(es) are used at the receiving facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge from your facility? (Check all that apply.)

- ☐ Preliminary operations (e.g., sludge grinding and degritting)
- ☐ Thickening (concentration)
- ☐ Stabilization
- ☐ Anaerobic digestion
- ☐ Composting
- ☐ Conditioning
- ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)
- ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)
- ☐ Heat drying
- ☐ Thermal reduction
- ☐ Methane or biogas capture and recovery
- ☐ Other (specify) _____

**2.24** Attach a copy of any information you provide the receiving facility to comply with the "notice and necessary information" requirement of 40 CFR 503.12(g).

☐ Check here to indicate that you have attached material.

**2.25** Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?

☐ Yes ☐ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

**2.26** Attach a copy of all labels or notices that accompany the product being sold or given away.

☐ Check here to indicate that you have attached material.

☐ Check here once you have completed Items 2.17 to 2.26 (Part 2, Section 2), then ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

**Land Application of Bulk Sewage Sludge**

**2.27** Is sewage sludge from your facility applied to the land?

☐ Yes ☐ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

**2.28** Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:

**2.29** Did you identify all land application sites in Part 2, Section 3 of this application?

☐ Yes ☐ No ➔ Submit a copy of the land application plan with your application.

**2.30** Are any land application sites located in states other than the state where you generate sewage sludge or derive a material from sewage sludge?

☐ Yes ☐ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

**2.31** Describe how you notify the NPDES permitting authority for the states where the land application sites are located. Attach a copy of the notification.

☐ Check here if you have attached the explanation to the application package.

☐ Check here if you have attached the notification to the application package.

**Surface Disposal**

**2.32** Is sewage sludge from your facility placed on a surface disposal site?

☐ Yes ☑ No ➔ SKIP to Item 2.39 (Part 2, Section 2) below.

**2.33** Total dry metric tons of sewage sludge from your facility placed on all surface disposal sites per 365-day period:

**2.34** Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?

☐ Yes ➔ SKIP to Item 2.39 (Part 2, Section 2) below. ☐ No

**2.35** Indicate the total number of surface disposal sites to which you send your sewage sludge.

(Provide the information in Items 2.36 to 2.38 of Part 2, Section 2, for each facility.)

☐ Check here if you have attached additional sheets to the application package.

Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

| | | | | |
|---|---|---|---|---|
| 2.36 | Site name or number of surface disposal site you do not own or operate | | | |
| | Mailing address (street or P.O. box) | | | |
| | City or Town | | State | ZIP Code |
| | Contact Name (first and last) | Title | Phone Number | Email Address |
| 2.37 | Site Contact (Check all that apply.) ☐ Owner ☐ Operator | | | |
| 2.38 | Total dry metric tons of sewage sludge from your facility placed on this surface disposal site per 365-day period: | | | |
| **Incineration** | | | | |
| 2.39 | Is sewage sludge from your facility fired in a sewage sludge incinerator? ☐ Yes ☑ No ➔ SKIP to Item 2.46 (Part 2, Section 2) below. | | | |
| 2.40 | Total dry metric tons of sewage sludge from your facility fired in all sewage sludge incinerators per 365-day period: | | | |
| 2.41 | Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? ☐ Yes ➔ SKIP to Item 2.46 (Part 2, Section 2) below. ☐ No | | | |
| 2.42 | Indicate the total number of sewage sludge incinerators used that you do not own or operate. (Provide the information in Items 2.43 to 2.45 directly below for each facility.) ☐ Check here if you have attached additional sheets to the application package. | | | |
| 2.43 | Incinerator name or number | | | |
| | Mailing address (street or P.O. box) | | | |
| | City or town | | State | ZIP code |
| | Contact name (first and last) | Title | Phone number | Email address |
| | Location address (street, route number, or other specific identifier) ☐ Same as mailing address | | | |
| | City or town | | State | ZIP code |
| 2.44 | Contact (check all that apply) ☐ Incinerator owner ☐ Incinerator operator | | | |
| 2.45 | Total dry metric tons of sewage sludge from your facility fired in this sewage sludge incinerator per 365-day period: | | | |
| **Disposal in a Municipal Solid Waste Landfill** | | | | |
| 2.46 | Is sewage sludge from your facility placed on a municipal solid waste landfill? ☑ Yes ☐ No ➔ SKIP to Part 2, Section 3. | | | |
| 2.47 | Indicate the total number of municipal solid waste landfills used. (Provide the information in Items 2.48 to 2.52 directly below for each facility.) ☐ Check here if you have attached additional sheets to the application package. | | 1 | |

**Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued**

**2.48**

Name of landfill
Cullman Environmental Waste Management Center

Mailing address (street or P.O. box)
P.O. Box 340

| City or town | State | ZIP code |
|---|---|---|
| Cullman | Alabama | 35056 |

| Contact name (first and last) | Title | Phone number | Email address |
|---|---|---|---|
| Bill St. John | President | (256) 734-2114 | bill@sjaonline.com |

Location address (street, route number, or other specific identifier)
2805 Alabama Highway 69 North
☐ Same as mailing address

| County | County code | |
|---|---|---|
| Cullman | | ☑ Not available |

| City or town | State | ZIP code |
|---|---|---|
| Cullman | Alabama | 35057 |

**2.49** Total dry metric tons of sewage sludge from your facility placed in this municipal solid waste landfill per 365-day period: 287

**2.50** List the numbers of all other federal, state, and local permits that regulate the operation of this municipal solid waste landfill.

| Permit Number | Type of Permit |
|---|---|
| 22-03 | Solid Waste Disposal Facility Permit |
| | |
| | |

**2.51** Attach to the application information to determine whether the sewage sludge meets applicable requirements for disposal of sewage sludge in a municipal solid waste landfill (e.g., results of paint filter liquids test and TCLP test).

☑ Check here to indicate you have attached the requested information.

**2.52** Does the municipal solid waste landfill comply with applicable criteria set forth in 40 CFR 258?

☑ Yes ☐ No

## PART 2, SECTION 3 LAND APPLICATION OF BULK SEWAGE SLUDGE (40 CFR 122.21(q)(9))

Land Application of Bulk Sewage Sludge

**3.1** Does your facility apply sewage sludge to land?

☐ Yes ☑ No ➔ SKIP to Part 2, Section 4.

**3.2** Do any of the following conditions apply?

- The sewage sludge meets the ceiling concentrations in Table 1 of 40 CFR 503.12, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), *and* one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)–(8);
- The sewage sludge is sold or given away in a bag or other container for application to the land; or
- You provide the sewage sludge to another facility for treatment or blending.

☐ Yes ➔ SKIP to Part 2, Section 4. ☐ No

**3.3** Complete Section 3 for every site on which the sewage sludge is applied.

☐ Check here if you have attached sheets to the application package for one or more land application sites.

**Identification of Land Application Site**

**3.4** Site name or number

Location address (street, route number, or other specific identifier) ☐ Same as mailing address

| County | County code ☐ Not available |
|---|---|

| City or town | State | ZIP code |
|---|---|---|

**Latitude/Longitude of Land Application Site** (see instructions)

| Latitude | Longitude |
|---|---|
| ° ' " | ° ' " |

**Method of Determination**

☐ USGS map ☐ Field survey ☐ Other (specify) _____

**3.5** Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.

☐ Check here to indicate you have attached a topographic map for this site.

**Owner Information**

**3.6** Are you the owner of this land application site?

☐ Yes ➔ SKIP to Item 3.8 (Part 2, Section 3) below. ☐ No

**3.7** Owner name

Mailing address (street or P.O. box)

| City or town | State | ZIP code |
|---|---|---|

| Contact name (first and last) | Title | Phone number | Email address |
|---|---|---|---|

**Applier Information**

**3.8** Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?

☐ Yes ➔ SKIP to Item 3.10 (Part 2, Section 3) below. ☐ No

**3.9** Applier's name

Mailing address (street or P.O. box)

| City or town | State | ZIP code |
|---|---|---|

| Contact name (first and last) | Title | Phone number | Email address |
|---|---|---|---|

Land Application of Bulk Sewage Sludge Continued

**Site Type**

3.10 Type of land application:

☐ Agricultural land ☐ Forest

☐ Reclamation site ☐ Public contact site

☐ Other (describe)

**Crop or Other Vegetation Grown on Site**

3.11 What type of crop or other vegetation is grown on this site?

3.12 What is the nitrogen requirement for this crop or vegetation?

**Vector Attraction Reduction**

3.13 Are the vector attraction reduction requirements at 40 CFR 503.33(b)(9) and (b)(10) met when sewage sludge is applied to the land application site?

☐ Yes ☐ No ➔ SKIP to Item 3.16 (Part 2, Section 3) below.

3.14 Indicate which vector attraction reduction option is met. (Check only one response.)

☐ Option 9 (injection below land surface) ☐ Option 10 (incorporation into soil within 6 hours)

3.15 Describe any treatment processes used at the land application site to reduce vector attraction properties of sewage sludge.

☐ Check here if you have attached your description to the application package.

**Cumulative Loadings and Remaining Allotments**

3.16 Is the sewage sludge applied to this site since July 20, 1993, subject to the cumulative pollutant loading rates (CPLRs) in 40 CFR 503.13(b)(2)?

☐ Yes ☐ No ➔ SKIP to Part 2, Section 4.

3.17 Have you contacted the NPDES permitting authority in the state where the bulk sewage sludge subject to CPLRs will be applied to ascertain whether bulk sewage sludge subject to CPLRs has been applied to this site on or since July 20, 1993?

☐ Yes ☐ No ➔ Sewage sludge subject to CPLRs may not be applied to this site. SKIP to Part 2, Section 4.

3.18 Provide the following information about your NPDES permitting authority:

| | |
|---|---|
| NPDES permitting authority name | |
| Contact person | |
| Telephone number | |
| Email address | |

3.19 Based on your inquiry, has bulk sewage sludge subject to CPLRs been applied to this site since July 20, 1993?

☐ Yes ☐ No ➔ SKIP to Part 2, Section 4.

3.20 Provide the following information for every facility other than yours that is sending, or has sent, bulk sewage sludge subject to CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.

☐ Check here to indicate that additional pages are attached.

| | | | |
|---|---|---|---|
| Facility name | | | |
| Mailing address (street or P.O. box) | | | |
| City or town | | State | ZIP code |
| Contact name (first and last) | Title | Phone number | Email address |

## PART 2, SECTION 4 SURFACE DISPOSAL (40 CFR 122.21(q)(10))

**Surface Disposal**

**4.1** Do you own or operate a surface disposal site?

☐ Yes ☑ No ➔ SKIP to Part 2, Section 5.

**4.2** Complete all items in Section 4 for each active sewage sludge unit that you own or operate.

☐ Check here to indicate that you have attached material to the application package for one or more active sewage sludge units.

**Information on Active Sewage Sludge Units**

**4.3**

| | | | |
|---|---|---|---|
| Unit name or number | | | |
| Mailing address (street or P.O. box) | | | |
| City or town | | State | ZIP code |
| Contact name (first and last) | Title | Phone number | Email address |
| Location address (street, route number, or other specific identifier) ☐ Same as mailing address | | | |
| County | | County code ☐ Not available | |
| City or town | | State | ZIP code |

**Latitude/Longitude of Active Sewage Sludge Unit** (see instructions)

| Latitude | Longitude |
|---|---|
| ° ′ ″ | ° ′ ″ |

**Method of Determination**

☐ USGS map ☐ Field survey ☐ Other (specify) _____

**4.4** Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.

☐ Check here to indicate that you have completed and attached a topographic map.

| | | |
|---|---|---|
| **4.5** | Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: | |
| **4.6** | Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit: | |

**4.7** Does the active sewage sludge unit have a liner with a maximum permeability of $1 \times 10^{-7}$ centimeters per second (cm/sec)?

☐ Yes ☐ No ➔ SKIP to Item 4.9 (Part 2, Section 4) below.

**4.8** Describe the liner.

☐ Check here to indicate that you have attached a description to the application package.

**4.9** Does the active sewage sludge unit have a leachate collection system?

☐ Yes ☐ No ➔ SKIP to Item 4.11 (Part 2, Section 4) below.

**4.10** Describe the leachate collection system and the method used for leachate disposal and provide the numbers of any federal, state, or local permit(s) for leachate disposal.

☐ Check here to indicate that you have attached the description to the application package.

Surface Disposal Continued

| | | |
|---|---|---|
| 4.11 | Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site?<br>☐ Yes ☐ No ➔ SKIP to Item 4.13 (Part 2, Section 4) below. | |
| 4.12 | Provide the actual distance in meters: | meters |
| 4.13 | Remaining capacity of active sewage sludge unit in dry metric tons: | dry metric tons |
| 4.14 | Anticipated closure date for active sewage sludge unit, if known (MM/DD/YYYY): | |
| 4.15 | Attach a copy of any closure plan that has been developed for this active sewage sludge unit.<br>☐ Check here to indicate that you have attached a copy of the closure plan to the application package. | |

**Sewage Sludge from Other Facilities**

| | | |
|---|---|---|
| 4.16 | Is sewage sludge sent to this active sewage sludge unit from any facilities other than your facility?<br>☐ Yes ☐ No ➔ SKIP to Item 4.21 (Part 2, Section 4) below. | |
| 4.17 | Indicate the total number of facilities (other than your facility) that send sewage sludge to this active sewage sludge unit. (Complete Items 4.18 to 4.20 directly below for each such facility.)<br>☐ Check here to indicate that you have attached responses for each facility to the application package. | |

**4.18**

| | | | |
|---|---|---|---|
| Facility name | | | |
| Mailing address (street or P.O. box) | | | |
| City or town | | State | ZIP code |
| Contact name (first and last) | Title | Phone number | Email address |

**4.19** Indicate the pathogen class and reduction alternative and the vector attraction reduction option met for the sewage sludge before leaving the other facility.

| Pathogen Class and Reduction Alternative | Vector Attraction Reduction Option |
|---|---|
| ☐ Not applicable | ☐ Not applicable |
| ☐ Class A, Alternative 1 | ☐ Option 1 |
| ☐ Class A, Alternative 2 | ☐ Option 2 |
| ☐ Class A, Alternative 3 | ☐ Option 3 |
| ☐ Class A, Alternative 4 | ☐ Option 4 |
| ☐ Class A, Alternative 5 | ☐ Option 5 |
| ☐ Class A, Alternative 6 | ☐ Option 6 |
| ☐ Class B, Alternative 1 | ☐ Option 7 |
| ☐ Class B, Alternative 2 | ☐ Option 8 |
| ☐ Class B, Alternative 3 | ☐ Option 9 |
| ☐ Class B, Alternative 4 | ☐ Option 10 |
| ☐ Domestic septage, pH adjustment | ☐ Option 11 |

**4.20** Which treatment process(es) are used at the other facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge before leaving the other facility? (Check all that apply.)

| | |
|---|---|
| ☐ Preliminary operations (e.g., sludge grinding and degritting) | ☐ Thickening (concentration) |
| ☐ Stabilization | ☐ Anaerobic digestion |
| ☐ Composting | ☐ Conditioning |
| ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization) | ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons) |
| ☐ Heat drying | ☐ Thermal reduction |
| ☐ Methane or biogas capture and recovery | ☐ Other (specify) _____ |

Surface Disposal Continued

**Vector Attraction Reduction**

4.21 Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?

- ☐ Option 9 (Injection below and surface)
- ☐ Option 10 (Incorporation into soil within 6 hours)
- ☐ Option 11 (Covering active sewage sludge unit daily)
- ☐ None

4.22 Describe any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge.

☐ Check here if you have attached your description to the application package.

**Groundwater Monitoring**

4.23 Is groundwater monitoring currently conducted at this active sewage sludge unit, or are groundwater monitoring data otherwise available for this active sewage sludge unit?

- ☐ Yes
- ☐ No ➔ SKIP to Item 4.26 (Part 2, Section 4) below.

4.24 Provide a copy of available groundwater monitoring data.

☐ Check here to indicate you have attached the monitoring data.

4.25 Describe the well locations, the approximate depth to groundwater, and the groundwater monitoring procedures used to obtain these data.

☐ Check here if you have attached your description to the application package.

4.26 Has a groundwater monitoring program been prepared for this active sewage sludge unit?

- ☐ Yes
- ☐ No ➔ SKIP to Item 4.28 (Part 2, Section 4) below.

4.27 Submit a copy of the groundwater monitoring program with this permit application.

☐ Check here to indicate you have attached the monitoring program.

4.28 Have you obtained a certification from a qualified groundwater scientist that the aquifer below the active sewage sludge unit has not been contaminated?

- ☐ Yes
- ☐ No ➔ SKIP to Item 4.30 (Part 2, Section 4) below.

4.29 Submit a copy of the certification with this permit application.

☐ Check here to indicate you have attached the certification to the application package.

**Site-Specific Limits**

4.30 Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?

- ☐ Yes
- ☐ No ➔ SKIP to Part 2, Section 5.

4.31 Submit information to support the request for site-specific pollutant limits with this application.

☐ Check here to indicate you have attached the requested information.

## PART 2, SECTION 5 INCINERATION (40 CFR 122.21(q)(11))

Incineration

### Incinerator Information

**5.1** Do you fire sewage sludge in a sewage sludge incinerator?

☐ Yes ☑ No ➔ SKIP to END.

**5.2** Indicate the total number of incinerators used at your facility. (Complete the remainder of Section 5 for each such incinerator.)

☐ Check here to indicate that you have attached information for one or more incinerators.

**5.3** Incinerator name or number

Location address (street, route number, or other specific identifier)

| County | County code | ☐ Not available |
|---|---|---|
| City or town | State | ZIP code |

**Latitude/Longitude of Incinerator** (see instructions)

| Latitude | Longitude |
|---|---|
| ° ' " | ° ' " |

**Method of Determination**

☐ USGS map ☐ Field survey ☐ Other (specify) _____

### Amount Fired

**5.4** Dry metric tons per 365-day period of sewage sludge fired in the sewage sludge incinerator:

### Beryllium NESHAP

**5.5** Submit information, test data, and a description of measures taken that demonstrate whether the sewage sludge incinerated is beryllium-containing waste and will continue to remain as such.

☐ Check here to indicate that you have attached this material to the application package.

**5.6** Is the sewage sludge fired in this incinerator "beryllium-containing waste" as defined at 40 CFR 61.31?

☐ Yes ☐ No ➔ SKIP to Item 5.8 (Part 2, Section 5) below.

**5.7** Submit with this application a complete report of the latest beryllium emission rate testing *and* documentation of ongoing incinerator operating parameters indicating that the NESHAP emission rate limit for beryllium has been and will continue to be met.

☐ Check here to indicate that you have attached this information.

### Mercury NESHAP

**5.8** Is compliance with the mercury NESHAP being demonstrated via stack testing?

☐ Yes ☐ No ➔ SKIP to Item 5.11 (Part 2, Section 5) below.

**5.9** Submit a complete report of stack testing and documentation of ongoing incinerator operating parameters indicating that the incinerator has met and will continue to meet the mercury NESHAP emission rate limit.

☐ Check here to indicate that you have attached this information.

**5.10** Provide copies of mercury emission rate tests for the two most recent years in which testing was conducted.

☐ Check here to indicate that you have attached this information.

**5.11** Do you demonstrate compliance with the mercury NESHAP by sewage sludge sampling?

☐ Yes ☐ No ➔ SKIP to Item 5.13 (Part 2, Section 5) below.

**5.12** Submit a complete report of sewage sludge sampling and documentation of ongoing incinerator operating parameters indicating that the incinerator has met and will continue to meet the mercury NESHAP emission rate limit.

☐ Check here to indicate that you have attached this information.

Incineration Continued

**Dispersion Factor**

| | | |
|---|---|---|
| 5.13 | Dispersion factor in micrograms/cubic meter per gram/second: | |
| 5.14 | Name and type of dispersion model: | |
| 5.15 | Submit a copy of the modeling results and supporting documentation.<br>☐ Check here to indicate that you have attached this information. | |

**Control Efficiency**

5.16 Provide the control efficiency, in hundredths, for each of the pollutants listed below.

| Pollutant | Control Efficiency, in Hundredths |
|---|---|
| Arsenic | |
| Cadmium | |
| Chromium | |
| Lead | |
| Nickel | |

| | | |
|---|---|---|
| 5.17 | Attach a copy of the results or performance testing and supporting documentation (including testing dates).<br>☐ Check here to indicate that you have attached this information. | |

**Risk-Specific Concentration for Chromium**

| | | |
|---|---|---|
| 5.18 | Provide the risk-specific concentration (RSC) used for chromium in micrograms per cubic meter: | |
| 5.19 | Was the RSC determined via Table 2 in 40 CFR 503.43?<br>☐ Yes ☐ No ➔ SKIP to Item 5.21 (Part 2, Section 5) below. | |
| 5.20 | Identify the type of incinerator used as the basis.<br>☐ Fluidized bed with wet scrubber ☐ Other types with wet scrubber<br>☐ Fluidized bed with wet scrubber and wet electrostatic precipitator ☐ Other types with wet scrubber and wet electrostatic precipitator | |
| 5.21 | Was the RSC determined via Table 6 in 40 CFR 503.43 (site-specific determination)?<br>☐ Yes ☐ No ➔ SKIP to Item 5.23 (Part 2, Section 5) below. | |
| 5.22 | Provide the decimal fraction of hexavalent chromium concentration to total chromium concentration in stack exit gas: | |
| 5.23 | Attach the results of incinerator stack tests for hexavalent and total chromium concentrations, including the date(s) of any test(s), with this application.<br>☐ Check here to indicate that you have attached this information. ☐ Not applicable | |

**Incinerator Parameters**

| | | |
|---|---|---|
| 5.24 | Do you monitor total hydrocarbons (THC) in the exit gas of the sewage sludge incinerator?<br>☐ Yes ☐ No | |
| 5.25 | Do you monitor carbon monoxide (CO) in the exit gas of the sewage sludge incinerator?<br>☐ Yes ☐ No | |
| 5.26 | Indicate the type of sewage sludge incinerator. | |
| 5.27 | Incinerator stack height in meters: | |
| 5.28 | Indicate whether the value submitted in Item 5.27 is (check only one response):<br>☐ Actual stack height ☐ Creditable stack height | |

Incineration Continued

**Performance Test Operating Parameters**

| | | |
|---|---|---|
| 5.29 | Maximum performance test combustion temperature: | |
| 5.30 | Performance test sewage sludge feed rate, in dry metric tons/day | |
| 5.31 | Indicate whether value submitted in Item 5.30 is (check only one response):<br>☐ Average use ☐ Maximum design | |
| 5.32 | Attach supporting documents describing how the feed rate was calculated.<br>☐ Check here to indicate that you have attached this information. | |
| 5.33 | Submit information documenting the performance test operating parameters for the air pollution control device(s) used for this sewage sludge incinerator.<br>☐ Check here to indicate that you have attached this information. | |

**Monitoring Equipment**

5.34 List the equipment in place to monitor the listed parameters.

| Parameter | Equipment in Place for Monitoring |
|---|---|
| Total hydrocarbons or carbon monoxide | |
| Percent oxygen | |
| Percent moisture | |
| Combustion temperature | |
| Other (describe) | |

**Air Pollution Control Equipment**

5.35 List all air pollution control equipment used with this sewage sludge incinerator.

☐ Check here if you have attached the list to the application package for the noted incinerator.

## END of PART 2

**Submit completed application package to your NPDES permitting authority.**

Pace Analytical®

# ANALYTICAL REPORT

January 11, 2022

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Gl
7 Al
8 Sc

## Cullman WWTP

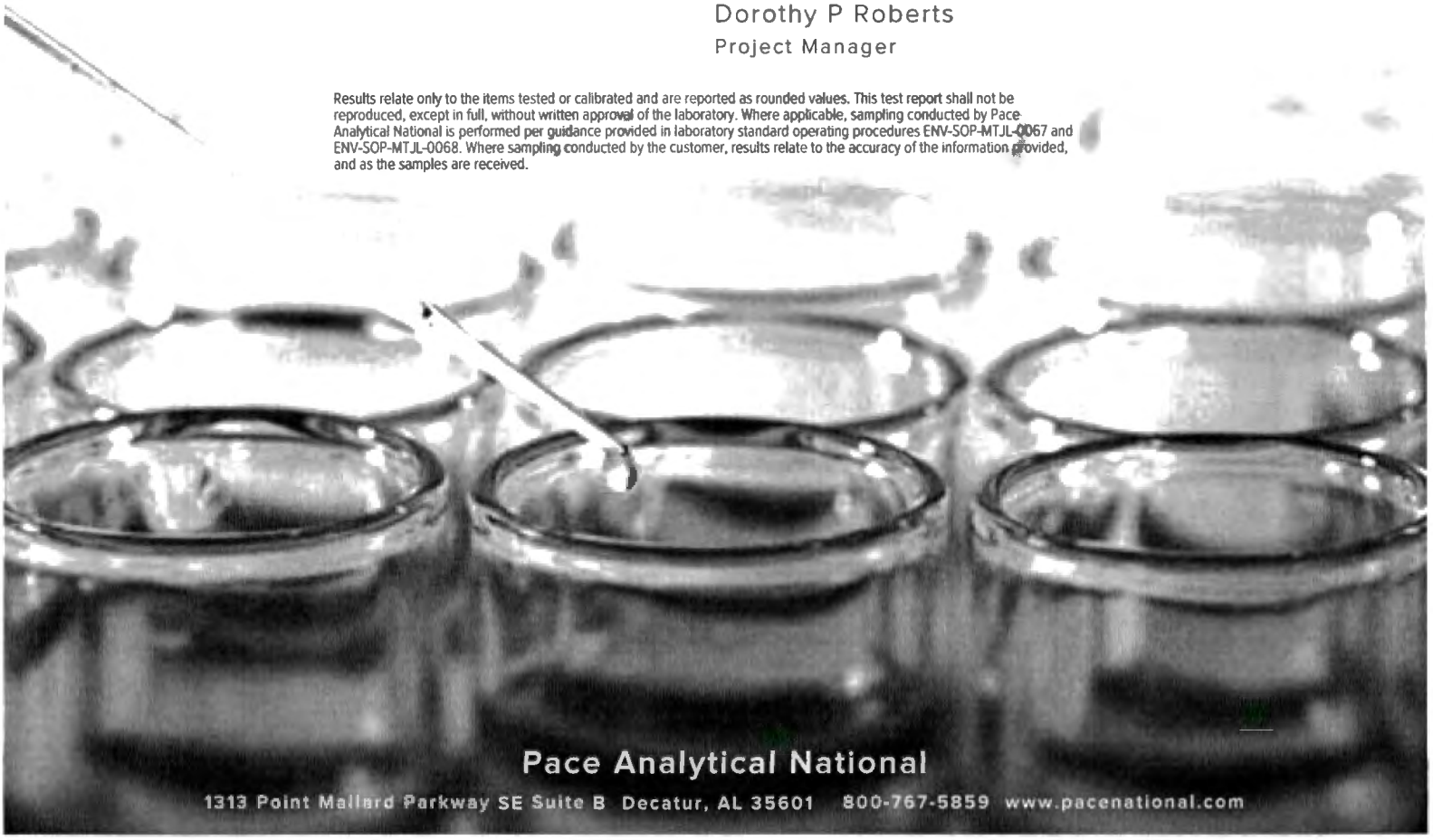
| | |
|---|---|
| Sample Delivery Group: | L1448532 |
| Samples Received: | 01/06/2022 |
| Project Number: | |
| Description: | Cyanide 2022 |
| Report To: | Jeff Adams<br>PO Box 278<br>Cullman, AL 35055 |

RECEIVED
FEB 08 2022
MUNICIPAL SECTION

Entire Report Reviewed By: Dorothy P Roberts

Dorothy P Roberts
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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| **Gl: Glossary of Terms** | **6** |
| Al: Accreditations & Locations | 7 |
| **Sc: Sample Chain of Custody** | **8** |

# SAMPLE SUMMARY

| OUTFALL 0011 L1448532-01 WW | | | Collected by Client | Collected date/time 01/06/22 14:47 | Received date/time 01/06/22 15:42 | |
|---|---|---|---|---|---|---|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Wet Chemistry by Method OIA-1677-09 | WG1799614 | 1 | 01/10/22 08:29 | 01/10/22 08:29 | JDR | Decatur, AL |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Dorothy P Roberts
**Project Manager**

# OUTFALL 0011

**Collected date/time: 01/06/22 14:47**

# SAMPLE RESULTS - 01

L1448532

## Wet Chemistry by Method OIA-1677-09

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Cyanide,free | ND | | 0.00200 | 1 | 01/10/2022 08:29 | WG1799614 |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| SDG | Sample Delivery Group. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# ACCREDITATIONS & LOCATIONS

| Pace Analytical National | 1313 Point Mallard Parkway SE Suite B Decatur, AL 35601 |
|---|---|
| Alabama | 40160 (Total Coliforms / E. coli by SM 9223 B (MMO-MUG) Colilert: provisionally certified) |
| ANSI National Accreditation Board | L2239 |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Cullman WWTP**

**PO Box 278**
**Cullman, AL 35055**

Billing Information:
**Accounts Payable**
**PO Box 278**
**Cullman, AL 35055**

Pres Chk

Report to:
**Jeff Adams**

Email To:
**wwtp@cullmanal.gov;jcalloway@cullmanal.gov;**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Phone: **256-739-2410**

Client Project #

Lab Project #

Collected by (print):
Jake Calloway

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

***Rush?*** **(Lab MUST Be Notified)**
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

DECONF 250ml HDPEAmb-NaOH

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|
| OUTFALL 0011 | | WW | | 1-6-21 | 2:47 | 1 | X | | -01 |

Chain of Custody Page ___ of ___

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1441532

Table #

Acctnum: **CULLWWTPCAL**

Template: **T201665**

Prelogin: **P897529**

PM: **3565 - Dorothy P Roberts**

PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
___UPS ___FedEx ___Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles Arrive Intact: ___Y ___N
Correct Bottles Used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N
RAD Screen <0.5 mR/hr: ___Y ___N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 1-6-21 | 20:57 | B. Arnton |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
| B. Arnton | 1-6-21 | 15:57 | |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | C. Gilbert |

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: 9.3 °C Bottles Received:

Date: 1/6/22 Time: 1542

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical®

# ANALYTICAL REPORT

January 26, 2022

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 GI
7 Al
8 Sc

## Cullman WWTP

| | |
|---|---|
| Sample Delivery Group: | L1453127 |
| Samples Received: | 01/20/2022 |
| Project Number: | |
| Description: | Cyanide 2022 |

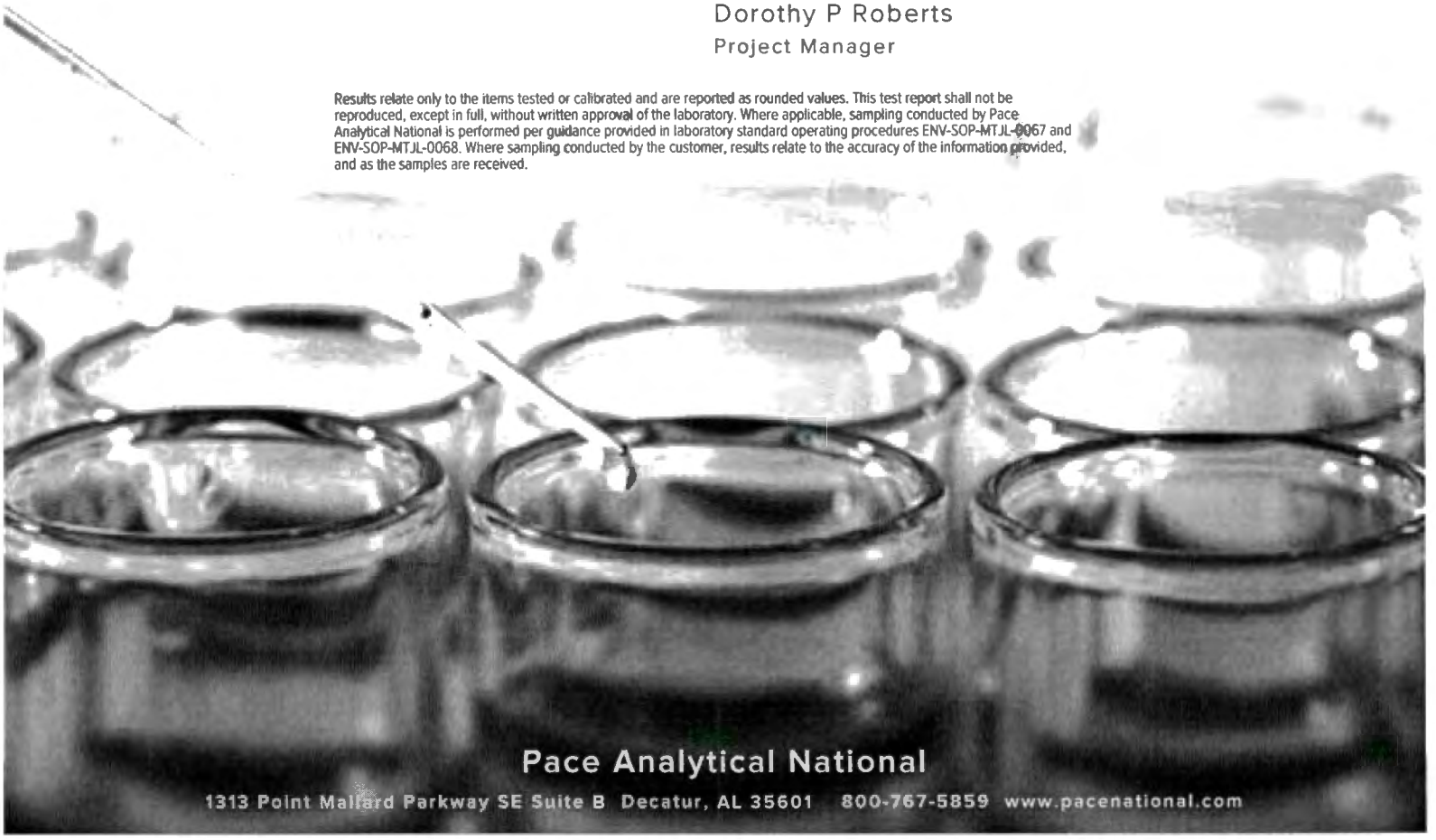
RECEIVED
FEB 08 20..
MUNICIPAL SE..

| | |
|---|---|
| Report To: | Jeff Adams |
| | PO Box 278 |
| | Cullman, AL 35055 |

Entire Report Reviewed By: Dorothy P Roberts

Dorothy P Roberts
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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| Gl: Glossary of Terms | 6 |
| Al: Accreditations & Locations | 7 |
| Sc: Sample Chain of Custody | 8 |

# SAMPLE SUMMARY

## OUTFALL 0011 L1453127-01 WW

| | | | Collected by | Collected date/time | Received date/time | |
|---|---|---|---|---|---|---|
| | | | Jake Calloway | 01/20/22 11:51 | 01/20/22 13:15 | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Wet Chemistry by Method OIA-1677-09 | WG1808167 | 1 | 01/26/22 10:46 | 01/26/22 10:46 | JDR | Decatur, AL |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Dorothy P Roberts
**Project Manager**

# OUTFALL 0011

**Collected date/time: 01/20/22 11:51**

# SAMPLE RESULTS - 01

L1453127

## Wet Chemistry by Method OIA-1677-09

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Cyanide,free | ND | | 0.00200 | 1 | 01/26/2022 10:46 | WG1808167 |

# GLOSSARY OF TERMS

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| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# ACCREDITATIONS & LOCATIONS

| Pace Analytical National | 1313 Point Mallard Parkway SE Suite B Decatur, AL 35601 |
|---|---|
| Alabama | 40160 (Total Coliforms / E. coli by SM 9223 B (MMO-MUG) Colilert: provisionally certified) |
| ANSI National Accreditation Board | L2239 |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

[1] Cp
[2] Tc
[3] Ss
[4] Cn
[5] Sr
[6] Gl
[7] Al
[8] Sc

| Company Name/Address | Billing Information: | Pres Chk |
|---|---|---|
| **Cullman WWTP**<br>PO Box 278<br>Cullman, AL 35055 | Accounts Payable<br>PO Box 278<br>Cullman, AL 35055 | |

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®

| Report to: | Email To: |
|---|---|
| Jeff Adams | wwtp@cullmanal.gov;jcalloway@cullmanal.gov; |

| Project Description: | City/State Collected | Please Circle PT MT CT ET |
|---|---|---|
| Phone 256-739-2410 | Client Project # | Lab Project # |
| Collected by (print): Jake Calloway | Site/Facility ID # | P.O. # |
| Collected by (signature): [signature] | Rush? (Lab MUST Be Notified)<br>___ Same Day ___ Five Day<br>___ Next Day ___ 5 Day (Rad Only)<br>___ Two Day ___ 10 Day (Rad Only)<br>___ Three Day | Quote #<br>Date Results Needed |
| Immediately Packed on Ice N ___ Y X | | |

SDG # L1453127

Table #

Acctnum: CULLWWTPCAL

Template: T201665

Prelogin: P897529

PM: 3565 - Dorothy P Roberts

PB:

Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No of Cntrs | DECENT 250mHDPEAmb-NaOH | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|
| OUTFALL 0011 | Grab | WW | | 1-20-22 | 11:51 am | 1 | X | | -01 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeOH TBR |
|---|---|---|---|---|
| [signature] | 1/20/22 | 1315 | [signature] | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: Time: |

Sample Receipt Checklist

COC Seal Present/Intact: __ NP __ Y __ N

COC Signed/Accurate: __ Y __ N

Bottles arrive in Good: __ Y __ N

Correct Bottles Used: __ Y __ N

Sufficient Volume Sent: __ Y __ N

If applicable

VOA Zero Headspace: __ Y __ N

Preservation Correct/Checked: __ Y __ N

RAD Screen at 0.5 mR/hr: __ Y __ N

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# ANALYTICAL REPORT

February 08, 2022



## Cullman WWTP

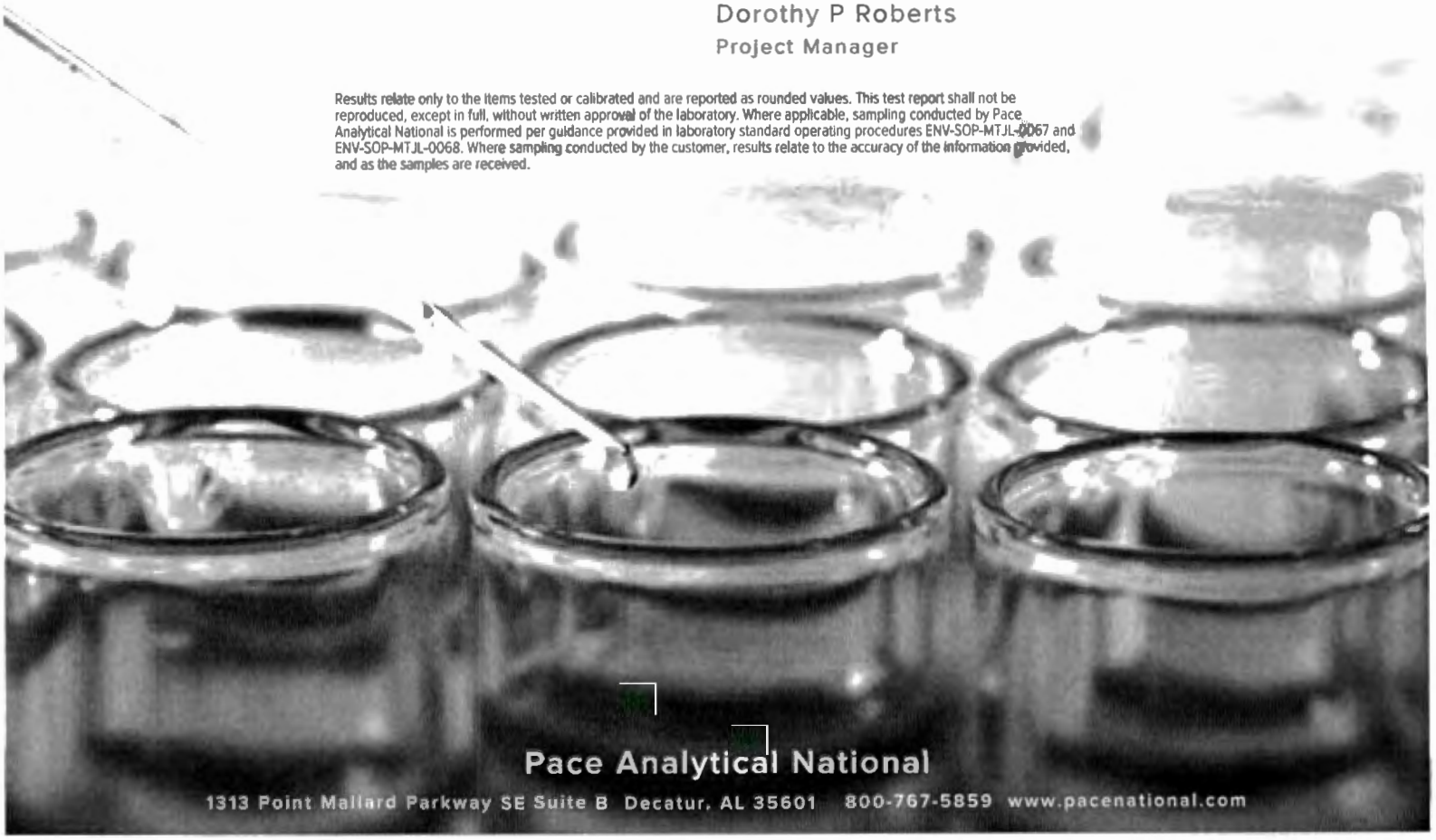
| | |
|---|---|
| Sample Delivery Group: | L1457644 |
| Samples Received: | 02/03/2022 |
| Project Number: | |
| Description: | Cyanide 2022 |
| Report To: | Jeff Adams<br>PO Box 278<br>Cullman, AL 35055 |

RECEIVED
FEB 08 2022
MUNICIPAL SECTION

Entire Report Reviewed By: Dorothy P Roberts

Dorothy P Roberts
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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# SAMPLE SUMMARY

## OUTFALL 0011 L1457644-01 WW

| | | | Collected by | Collected date/time | Received date/time | |
|---|---|---|---|---|---|---|
| | | | Client | 02/03/22 10:45 | 02/03/22 12:41 | |
| **Method** | **Batch** | **Dilution** | **Preparation date/time** | **Analysis date/time** | **Analyst** | **Location** |
| Wet Chemistry by Method OIA-1677-09 | WG1814401 | 1 | 02/08/22 10:43 | 02/08/22 10:43 | JDR | Decatur, AL |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Dorothy P Roberts
**Project Manager**

## Wet Chemistry by Method OIA-1677-09

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Cyanide,free | ND | | 0.00200 | 1 | 02/08/2022 10:43 | WG1814401 |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| SDG | Sample Delivery Group. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
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| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| | The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG. |

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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

**Company Name/Address:**
**Cullman WWTP**
PO Box 278
Cullman, AL 35055

**Billing Information:**
Accounts Payable
PO Box 278
Cullman, AL 35055

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

**Report to:** Jeff Adams

**Email To:** wwtp@cullmanal.gov;jcalloway@cullmanal.gov;

**Project Description:**

**City/State Collected:**

Please Circle: PT MT CT ET

**Phone:** 256-739-2410

**Client Project #**

**Lab Project #**

SDG # L1457644

Table #

**Collected by (print):** Jake Calloway

**Site/Facility ID #**

**P.O. #**

Acctnum: CULLWWTPCAL

Template: T201665

Prelogin: P897529

PM: 3565 - Dorothy P Roberts

PB:

Shipped Via: FedEX Ground

**Collected by (signature):** [signature]

Immediately Packed on Ice N___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

**Quote #**

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | OECCNF 250mlHDPEAmb-NaOH | | | | | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OUTFALL 0011 | | WW | | 2/3/22 | 10:45am | 1 | X | | | | | | | | | | | -01 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

**Remarks:**

pH ______ Temp ______

Flow ______ Other ______

Samples returned via:
__UPS __FedEx __Courier ________

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: _NP _Y _N
COC Signed/Accurate: _Y _N
Bottles arrive intact: _Y _N
Correct bottles used: _Y _N
Sufficient volume sent: _Y _N
If Applicable
VOA Zero Headspace: _Y _N
Preservation Correct/Checked: _Y _N
RAD Screen <0.5 mR/hr: _Y _N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| [signature] | 2/3/22 | 12:41pm | [signature] | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 0.0 °C Bottles Received: 2.5 1.0 = 2.5 1.5 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: 2/3/22 Time: 1241 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

2/4/22 8:30