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JUL 13 2018

Ray Hardin, General Manager
Decatur Utilities
Post Office Box 2232
Decatur, AL 35609

RE: Draft Permit
NPDES Permit No. AL0048593
Decatur Utilities WWTP
Morgan County, Alabama

Dear Mr. Hardin:

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 Part I.C.2.e of your permit requires that you apply for participation in the Department's web-based electronic environmental (E2) reporting system for submittal of **SSOs** within 30 days of coverage under this permit unless valid justification as to why you cannot participate is submitted in writing. After issuance of the permit, SSO hotline notifications and hard copy Form 415 SSO reports may be used only with the written approval from the Department. The E2 Program allows ADEM to electronically validate, acknowledge receipt, and upload data to the state's central wastewater database. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. The Permittee Participation Package may be downloaded online at **https://e2.adem.alabama.gov/npdes** or you may obtain a hard copy by submitting a written request or by emailing e2admin@adem.alabama.gov.

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 by email at nicholas.lowe@adem.alabama.gov or by phone at (334) 271-7811.

Sincerely,

Nicholas Lowe

Nicholas Lowe
Municipal Section
Water Division

/mfc
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

ADEM
Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE:	DECATUR UTILITIES POST OFFICE BOX 2232 DECATUR, ALABAMA 35609	
FACILITY LOCATION:	DECATUR UTILITIES WWTP 902 WILSON STREET N.W. DECATUR, ALABAMA MORGAN COUNTY	(36.0 MGD)
PERMIT NUMBER:	AL0048593	
RECEIVING WATERS:	TENNESSEE RIVER (WHEELER LAKE) DRY BRANCH (WHEELER LAKE) - STORMWATER	

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

MUNICIPAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

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ATTACHMENT:

FORM 421 NON-COMPLIANCE NOTIFICATION FORM

PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. Outfall 0012 Discharge Limits - Effluent

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 0012, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*							Monitoring Requirements**			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO) 00300 1 0 0	*****	*****	*****	*****	REPORT mg/l	*****	*****	E	GRAB	C	*****
pH 00400 1 0 0	*****	*****	*****	*****	6.0 S.U.	9.0 S.U.	*****	E	GRAB	C	*****
Solids, Total Suspended 00530 1 0 0	9007 lbs/day	13510 lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Solids, Total Suspended 00530 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	C	*****
Nitrogen, Ammonia Total (As N) 00610 1 0 0	6004 lbs/day	9007 lbs/day	20.0 mg/l	30.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Nitrogen, Kjeldahl Total (As N) 00625 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total 1 Det. (As N) 00630 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Phosphorus, Total (As P) 00665 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Flow, In Conduit or Thru Treatment Plant 50050 1 0 0	REPORT MGD	*****	*****	*****	*****	REPORT MGD	*****	See Part IV.H	CONTIN	A	*****
Chlorine, Total Residual See note (5) 50060 1 0 0	*****	*****	*****	*****	*****	1.0 mg/l	*****	E	GRAB	C	*****
E. Coli 51040 1 0 0	*****	*****	126 col/100mL	*****	*****	235 col/100mL	*****	E	GRAB	C	ECS
E. Coli 51040 1 0 0	*****	*****	555 col/100mL	*****	*****	1035 col/100mL	*****	E	GRAB	C	ECW
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	7506 lbs/day	11259 lbs/day	25.0 mg/l	37.5 mg/l	*****	*****	*****	E	COMP24	C	*****
BOD, Carbonaceous 05 Day, 20C 80082 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	C	*****
BOD, Carb-5 Day, 20 Deg C, Percent Remvl 80091 K 0 0	*****	*****	*****	*****	*****	*****	85.0%	K	CALCTD	G	*****
Solids, Suspended Percent Removal 81011 K 0 0	*****	*****	*****	*****	*****	*****	85.0%	K	CALCTD	G	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)
** Monitoring Requirements

(1) Sample Location
I – Influent
E – Effluent
X – End Chlorine Contact Chamber
K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.
RS - Receiving Stream
US – Upstream
DS – Downstream
MW – Monitoring Well
SW – Storm Water

(2) Sample Type:
CONTIN - Continuous
INSTAN - Instantaneous
COMP-8 - 8-Hour Composite
COMP24 - 24-Hour Composite
GRAB – Grab
CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.
A - 7 days per week
B - 5 days per week
C - 3 days per week
D - 2 days per week
E - 1 day per week
F - 2 days per month
G - 1 day per month
H - 1 day per quarter
J - Annual
Q - For Effluent Toxicity Testing, see Provision IV.B.

(4) Seasonal Limits:
S = Summer (May – November)
W = Winter (December - April)
ECS = E. coli Summer (May – October)
ECW = E. coli Winter (November – April)

(5) 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" on the monthly DMR.

2. Outfall 001Q Discharge Limits – PFC 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 001Q, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*(5)(6)							Monitoring Requirements**			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Perfluorooctanoic Acid 51521 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorobutanoic Acid 51522 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorooctanesulfonamide 51525 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorooctane Sulfonate 51526 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluoropentanoic Acid 51623 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorohexanoic Acid 51624 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluoroheptanoic Acid 51625 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorononanoic Acid 51626 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorodecannoic Acid 51627 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluoroundecanoic Acid 51628 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorododecanoic Acid 51629 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorotridecanoic Acid 51630 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorotetradecanoic Acid 51631 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorobutane Sulfonate 51632 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorohexane Sulfonate 51633 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****
Perfluorodecane Sulfonate 51635 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	H	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)
** Monitoring Requirements

(1) Sample Location
I – Influent
E – Effluent
X – End Chlorine Contact Chamber
K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.
RS - Receiving Stream
US – Upstream
DS – Downstream
MW – Monitoring Well
SW – Storm Water

(2) Sample Type:
CONTIN - Continuous
INSTAN - Instantaneous
COMP-8 - 8-Hour Composite
COMP24 - 24-Hour Composite
GRAB – Grab
CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.
A - 7 days per week
B - 5 days per week
C - 3 days per week
D - 2 days per week
E - 1 day per week
F - 2 days per month
G - 1 day per month
H - 1 day per quarter
J - Annual
Q - For Effluent Toxicity Testing, see Provision IV.B.

(4) Seasonal Limits:
S = Summer (May – November)
W = Winter (December - April)
ECS = E. coli Summer (May – October)
ECW = E. coli Winter (November – April)

(5) If only one sampling event occurs during a quarter, the sample result shall be reported on the quarterly DMR as both the monthly average and weekly average value.
(6) The Permittee shall use EPA approved methods with the lowest detection levels or an equivalent method that has been approved by the Department.

3. Outfall 001T Discharge Limits – Toxicity 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 001T, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*(5)							Monitoring Requirements**			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Toxicity, Ceriodaphnia Acute 61425 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****
Toxicity, Pimephales Acute 61427 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)
** Monitoring Requirements

(1) Sample Location
I – Influent
E – Effluent
X – End Chlorine Contact Chamber
K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.
RS - Receiving Stream
US – Upstream
DS – Downstream
MW – Monitoring Well
SW – Storm Water

(2) Sample Type:
CONTIN - Continuous
INSTAN - Instantaneous
COMP-8 - 8-Hour Composite
COMP24 - 24-Hour Composite
GRAB – Grab
CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.
A - 7 days per week
B - 5 days per week
C - 3 days per week
D - 2 days per week
E - 1 day per week
F - 2 days per month
G - 1 day per month
H - 1 day per quarter
J - Annual
Q - For Effluent Toxicity Testing, see Provision IV.B.

(4) Seasonal Limits:
S = Summer (May – November)
W = Winter (December - April)
ECS = E. coli Summer (May – October)
ECW = E. coli Winter (November – April)

(5) See Part IV.B for Effluent Toxicity Limitations and Biomonitoring Requirements – Acute Diffuser.

4. Outfalls 002S, 003S, 004S, 005S, 006S, 007S, and 008S Discharge Limits – Stormwater

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 002S, 003S, 004S, 005S, 006S, 007S, and 008S which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*(5) (6)							Monitoring Requirements**			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH 00400 SW 0 0	*****	*****	*****	*****	REPORT S.U.	REPORT S.U.	*****	SW	GRAB	J	*****
Solids, Total Suspended 00530 SW 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	SW	GRAB	J	*****
Oil & Grease 00556 SW 0 0	*****	*****	*****	*****	*****	15 mg/l	*****	SW	GRAB	J	*****
Nitrogen, Ammonia Total (As N) 00610 SW 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	SW	GRAB	J	*****
Nitrogen, Kjeldahl Total (As N) 00625 SW 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	SW	GRAB	J	*****
Nitrite Plus Nitrate Total 1 Det. (As N) 00630 SW 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	SW	GRAB	J	*****
Phosphorus, Total (As P) 00665 SW 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	SW	GRAB	J	*****
Flow, In Conduit or Thru Treatment Plant 50050 SW 0 0	*****	*****	*****	*****	*****	REPORT MGD	*****	SW	CALCTD	J	*****
E. Coli 51040 SW 0 0	*****	*****	*****	*****	*****	REPORT col/100mL	*****	SW	GRAB	J	*****
BOD, Carbonaceous 05 Day, 20C 80082 SW 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	SW	GRAB	J	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)
** Monitoring Requirements

(1) Sample Location
I – Influent
E – Effluent
X – End Chlorine Contact Chamber
K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.
RS - Receiving Stream
US – Upstream
DS – Downstream
MW – Monitoring Well
SW – Storm Water

(2) Sample Type:
CONTIN - Continuous
INSTAN - Instantaneous
COMP-8 - 8-Hour Composite
COMP24 - 24-Hour Composite
GRAB – Grab
CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.
A - 7 days per week
B - 5 days per week
C - 3 days per week
D - 2 days per week
E - 1 day per week
F - 2 days per month
G - 1 day per month
H - 1 day per quarter
J - Annual
Q - For Effluent Toxicity Testing, see Provision IV.B.

(4) Seasonal Limits:
S = Summer (May – November)
W = Winter (December - April)
ECS = E. coli Summer (May – October)
ECW = E. coli Winter (November – April)

(5) Stormwater Sampling and reporting for all outfalls may be accomplished by sampling the following designated outfall: Outfall 007S (representative of Outfalls 002S, 003S, 004S, 005S, 006S, and 008S).
(6) See Part IV.F for Storm Water Requirements.

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) on the forms approved by the Department and 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 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.

(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. by utilizing the Department's web-based Electronic Environmental (E2) Reporting System.

(1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting 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 E2 Reporting 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 E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 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.

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.

(3) 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.

(4) 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.

(5) 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
Municipal Section, Water 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. 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 a web-based electronic environmental (E2) reporting system for notification and submittal of SSO reports. **If the Permittee is not already participating in the E2 Reporting System for SSO reports, the Permittee must apply for participation in the system within 30 days of coverage under this permit unless the Permittee submits in writing valid justification as to why it cannot participate and the Department approves in writing utilization of verbal notifications and hard copy SSO report submittals.** Once the Permittee is enrolled in the E2 Reporting System for SSO reports, the Permittee must utilize the system for notification and submittal of all SSO reports unless otherwise allowed by this permit. The Permittee shall include in the SSO reports the information requested by ADEM Form 415. In addition, the Permittee shall include the latititude 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 E2 Reporting System for SSO reports, the Permittee Participation Package may be downloaded online at **https://e2.adem.alabama.gov/npdes**. If the E2 Reporting 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 E2 Reporting System resuming operation, the Permittee shall enter the data into the E2 Reporting 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 (BMP)

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 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

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, for 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, any 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) 素嬤 agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(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.

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; or

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; and
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. From which the discharge of pollutants did not commence 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 – 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; or

    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 and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.

   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. If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:

      (1) Type of sludge stabilization/digestion method;

      (2) Daily or annual sludge production (dry weight basis);

      (3) Ultimate sludge disposal practice(s).

   b. 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 reported in Provision IV.A.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.

   c. 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 as required by Provision IV.A.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.

   b. If an applicable "acceptable management practice" 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. This permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the 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 – ACUTE DIFFUSER

1. Acute Toxicity Test

   a. The permittee shall perform 48-hour acute toxicity tests on the wastewater discharges required to be tested for acute toxicity by Part I of this permit.

   b. The samples shall be diluted using an appropriate control water, to the Instream Waste Concentration (IWC) which is **23 percent** effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 1-day, 10-year flow period.

   c. Any test where survival in the effluent concentration is less than 90% and statistically lower than the control indicates acute toxicity and constitutes noncompliance with this permit.

2. General Test Requirements:

   a. A 24-hour composite sample shall be obtained for use in above biomonitoring tests. The holding time for each 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-02-012 or most current edition or another control water selected by the permittee and approved by the Department.

   b. Effluent toxicity tests in which the control survival is less than 90% or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the permittee shall rerun the tests as soon as practical within the monitoring period.

   c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and 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 0011 exhibits acute 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 Section 2 and 7 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

4. Additional Testing Requirements:

a. If acute toxicity is indicated (noncompliance with permit limit), the permittee shall perform four additional valid acute toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall be performed once per week and shall be performed during the first four calendar weeks following the date on which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which 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/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

5. Test Methods:

The tests shall be performed in accordance with the latest edition of the "EPA Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" and shall be performed using the fathead minnow (Pimephales promelas) and the cladoceran (Ceriodaphnia dubia).

6. Effluent Toxicity Testing Reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate this requirement or may increase or decrease 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)
  (a) Name of firm
  (b) Telephone number
  (c) 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 date (MGD, CFS, GPM)
(3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

(1) Effluent samples
  (a) Sampling point
  (b) Sample collection dates and times (to include composite sample start and finish times)
  (c) Sample collection method
  (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
  (e) Sample temperature when received at the laboratory

(f) Lapsed time from sample collection to delivery
(g) Lapsed time from sample collection to test intiation

(2) Dilution Water Samples
(a) Source
(b) Collection date(s) and time(s) (where applicable)
(c) Pretreatment
(d) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, 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) Feeding frequency, and amount and type of food
(12) Light intensity (mean)

e. Test Organisms

(1) Scientific name
(2) Life stage and age
(3) Source
(4) Disease treatment (if applicable)

f. Quality Assurance

(1) Reference toxicant utilized and source
(2) Date and time of most recent acute reference toxicant test(s), raw data, and current cusum chart(s)
(3) Dilution water utilized in reference toxicant test
(4) Results of reference toxicant test(s) (LC50, etc.), report concentration-response relationship and evaluate test sensitivity. The most recent reference toxicant test shall be conducted within 30-days of the routine.
(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: LC50, NOEC, Pass/Fail (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) (LC50, NOEC, Pass/Fail, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD).

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits
(2) Action to be taken

1/ Adapted from "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", Fifth Edition, October 2002 (EPA 821-R-02-012), Section 12, 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. STORM WATER 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. PERFLUORONATED COMPOUNDS

1. Reopener Clause

This permit may be revoked and reissued or modified if new information becomes available. This information may include but is not limited to: new laws, regulations, policies, or additional technology requirements.

2. Reporting Limits and Sampling Methods For Perfluoronated Chemicals

The Permittee shall use the following methods and reporting limits for the parameters listed in the Part I.A

Parameter	Method	Reporting Limit
Perfluorobutanoic Acid	LC/MS/MS	0.025 ug/l
Perfluoropentanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorohexanoic Acid	LC/MS/MS	0.025 ug/l
Perfluoroheptanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorooctanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorononanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorodecanoic Acid	LC/MS/MS	0.025 ug/l
Perfluoroundecanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorododecanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorotridecanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorotetradecanoic Acid	LC/MS/MS	0.025 ug/l
Perfluorobutane Sulfonate	LC/MS/MS	0.025 ug/l
Perfluorohexane Sulfonate	LC/MS/MS	0.025 ug/l
Perfluorooctane Sulfonate	LC/MS/MS	0.025 ug/l
Perfluorodecane Sulfonate	LC/MS/MS	0.025 ug/l
Perfluorooctane Sulfonamide	LC/MS/MS	0.025 ug/l

H. FLOW MONITORING

The Permittee is allowed to collect flow data at the influent station when the effluent monitoring device fails or malfunctions or when maintenance is being conducted. When this condition is not met, the Permittee must collect the flow data at the effluent station.

I. 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: http://www.adem.state.al.us/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)

(a) 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.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NPDES/SID NON-COMPLIANCE NOTIFICATION FORM

Instructions: This form should be used to notify the Department of non-compliance with permit requirements in accordance with ADEM Admin. Code r. 335-6-6-.12(1)6.(iii) [NPDES permits] or 335-6-5-.15(12)(f)2. (SID permits) and should be submitted with the Discharge Monitoring Reports (DMR) for the respective monitoring period. A new form should be used for each monitoring period.

Permittee Name: _____ **Permit No:** _____

Facility Name: _____ **County:** _____

DMR Monitoring Period: _____

1. **Description of non-compliance associated with an outfall(s)** (attach additional pages if necessary):

Effluent Violations (if applicable)			
Outfall Number(s)	**Noncompliant Parameters(s)**	**Result Reported (include units)**	**Permit Limit (include units)**

Monitoring / Reporting Violations (if applicable)		
Outfall Number(s)	**Noncompliant Parameter(s)**	**Description of Monitoring / Reporting Violation**

2. **Description of non-compliance that is <u>not</u> associated with an outfall** (i.e. not suitable to be reported in Item 1.):

3. **Cause of non-compliance** (attach additional pages if necessary):

4. **Period of noncompliance** [include exact date(s) and time(s) or, if not corrected, the anticipated duration of the noncompliance]:

5. **Description of steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence** (attach additional pages if necessary):

"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."

Responsible Official Signature	Date Signed	Responsible Official Printed Name and Title

LANCE R. LEFLEUR
DIRECTOR

KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ▪ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

FACT SHEET

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

Date: August 28, 2017 **Prepared By:** Nicholas Lowe

NPDES Permit No. AL0048593

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

   Decatur Utilities
   Post Office Box 2232
   Decatur, AL 35609

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

   Decatur Utilities WWTP
   902 Wilson Street N.W.
   Decatur, Alabama 35601

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

   Waste Water Treatment Plant

4. **Applicant's Receiving Waters**

Receiving Waters	Classification
Tennessee River (Wheeler Lake)	S, F&W
Dry Branch (Wheeler Lake)	F&W

   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:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

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:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

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 36110-2059

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:	**AL0048593**	Date: 8/24/2017
Permit Applicant:	Decatur Utilities Post Office Box 2232 Decatur, Alabama 35609	
Location:	Decatur Utilities WWTP 902 Wilson Street N.W. Decatur, Alabama 35601	
Draft Permit is:	Initial Issuance: Reissuance due to expiration: Modification of existing permit: Revocation and Reissuance:	 X
Basis for Limitations:	Water Quality Model: Reissuance with no modification: Instream calculation at 7Q10: Toxicity based: Secondary Treatment Levels: Other (described below):	CBOD, NH3-N DO, pH, TSS, NH3-N, TRC, E. coli, CBOD, CBOD % Removal, TSS % Removal 23% (CORMIX) TRC TSS, TSS % Removal, CBOD, CBOD % Removal pH, E. coli

Design Flow in Million Gallons per Day: 36.0 MGD

Major: Yes

Description of Discharge:

Outfall Number 001;
Effluent discharge to Tennessee River (Wheeler Lake), which is classified as Swimming and Fish & Wildlife.

Outfall Numbers 002 - 004;
Stormwater discharges to Tennessee River (Wheeler Lake), which is classified as Swimming and Fish & Wildlife.

Outfall Numbers 005 - 008;
Stormwater discharges to Dry Branch (Wheeler Lake), which is classified as Fish & Wildlife.

Discussion: This is a reissuance due to expiration.

The segment of the Tennessee River (Wheeler Lake), containing the discharge, is classified as a Tier I stream and is on the most recent 303(d) list for Perflourooctane Sulfonate (PFOS) and Nutrients. Monitoring is imposed for the Perflourochemicals listed in Part IV of the Permit. Nutrient monitoring is already imposed. There are no TMDLs affecting this discharge.

The limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD) and Total Ammonia as Nitrogen (NH3-N) are based on the Waste Load Allocation (WLA) model that was completed by ADEM's Water Quality Branch on December 1, 2010. The monthly average limit for CBOD is 25.0 mg/L. The monthly average limit for NH3-N is 20.0 mg/L.

The limits for Total Suspended Solids (TSS), TSS % removal, and CBOD % removal are 30.0 mg/L, 85%, and 85% respectively. These limits are based on requirements of 40 CFR part 133.102 regarding Secondary Treatment.

The Department recently 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 Tennessee River (Wheeler Lake) is classified as Swimming and Fish & Wildlife, the limits for May through October are 126 col/100ml (monthly average) and 235 col/100ml (daily maximum). The E. coli limits for November through April are 555 col/100ml (monthly average) and 1035 col/100ml (daily maximum) based on a memo prepared by ADEM's Water Quality Branch on November 4, 2015. The E. coli limits were determined using an Instream Waste Concentration (IWC) of 22.7%. It should be noted that the facility is equipped with a submerged multiport diffuser which is 830 feet from the nearest bank (distance from the first diffuser port to the nearest bank) and at a depth of approximately 38 feet.

The pH limits were developed in accordance with the Water-Use designation of the receiving stream and to be consistent with the Department's permitting approach and procedures. The minimum pH limit of 6.0 S.U. and a maximum limit of 9.0 S.U. are imposed.

The daily maximum Total Residual Chlorine (TRC) limit of 1.0 mg/L is based on EPA's recommended water quality value and on the current Toxicity Rationale, which considers the available dilution and should be protective of acute and chronic criteria in the receiving stream. Monitoring for TRC is only applicable if chlorine is utilized for disinfection purposes. That is, if chlorine disinfection is not utilized, monitoring would not be applicable during the monitoring period, and "*9" should be entered on the monthly DMR.

This permit imposes monitoring for the following nutrient-related parameters: Total Kjeldahl Nitrogen (TKN), Nitrite plus Nitrate as 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.

Acute toxicity testing is imposed with two species (Ceriodaphnia and Pimephales). Toxicity testing is required because this is a major facility discharging to a water of the state and because the facility treats a mixture of domestic and industrial wastewater. Acute toxicity testing is required on an annual basis at the Instream Waste Concentration (IWC) of 22.3 percent based on the Cormix model results provided by the Water Quality Branch on March 31, 2009.

Since this facility is classified as a Major Municipal Wastewater plant and treats a mixture of domestic and industrial wastewater, the Department completed a reasonable potential analysis (RPA) of the discharge based on background data from the Guntersville Forebay on the Tennessee River and laboratory data provided in the Permittee's application. The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the RPA, it appears that there may be reasonable potential to cause in-stream water quality criteria exceedances for Arsenic and Zinc. The reasonable potential for Arsenic and Zinc in the Tennessee River appears to be due to the background data used in the analysis. The Arsenic and Zinc data submitted with

the application indicates that the Arsenic and Zinc concentrations are well below the chronic, acute, and human health water quality criteria.

In the permit application, the Permittee reported seven stormwater outfalls at the treatment plant. Stormwater monitoring will be required at the representative outfall designation 007S on an annual basis.

Monitoring will be conducted three times per week for most parameters. Percent removal for CBOD and TSS will be calculated once per month. Monitoring for nutrient-related parameters will be once per month. Quarterly monitoring is imposed for Perflourochemicals listed in Part IV of the Permit. Flow will be monitored continuously, 7 days per week.

ADEM Administrative Rule 335-6-10-.04 requires applicants to 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 stream, so the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

Prepared by: Nicholas Lowe

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	**Decatur Utilities WWTP**	
NPDES Permit Number:	**AL0048593**	
Receiving Stream:	**Tennessee River (Wheeler Lake)**	
Facility Design Flow (Q_w):	**36.000 MGD**	
Receiving Stream $7Q_{10}$:	**6436.000 cfs**	
Receiving Stream $1Q_{10}$:	**4827.000 cfs**	
Winter Headwater Flow (WHF):	**11320.00 cfs**	
Summer Temperature for CCC:	**28 deg. Celsius**	
Winter Temperature for CCC:	**28 deg. Celsius**	
Headwater Background NH_3-N Level:	**0.33 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.

$$\text{Stream Dilution Ration (SDR)} = \frac{Qw}{7Q10 + Qw} = \mathbf{0.86\%}$$

AMMONIA TOXICITY LIMITATIONS

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

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

$$= \mathbf{0.86\%} \qquad \textbf{Stream-Dominated, CMC Applies}$$

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**	**2.48 mg/l**

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

$$= \mathbf{4168.4 \text{ mg/l NH3-N at 7Q10}}$$

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

$$= \mathbf{N./A.}$$

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	**20.00 mg/l NH3-N**	**4168.40 mg/l NH3-N**
Winter	**N./A.**	**N./A.**

Summer: The DO based limit of 20.00 mg/l NH3-N applies.
Winter limits are not applicable.

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.

Acute toxicity testing is required

Instream Waste Concentration (IWC) = Based on Cormix Model = **22.30%** 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: **Swimming, 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):	126	**555**
Monthly limit as monthly aveage (May through October):	126	**126**
Daily Max (November through April):	235	**1035**
Daily Max (May through October):	235	**235**
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:	1.282 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	2.214 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: Nicholas Lowe Date: 11/21/2017

Facility Name: **Decatur Utilities WWTP**

NPDES No.: **AL0048593**

6/13/2017

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

ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C_{d2}) Daily Max	Background from upstream source (C_{d2}) Monthly Ave	Background Instream (C_s) Daily Max	Background Instream (C_s) Monthly Ave	Enter Max Daily Discharge as reported by Applicant (C_d) Max	Enter Avg Daily Discharge as reported by Applicant (C_d) Ave	Partition Coefficient (Stream / Lake)
				µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
1	Antimony		Metals	0	0	0	0	1.8	1.4	-
2	**Arsenic*,****	YES	Metals	0	0	1.5	0.6	0.082	0.063	0.574
3	Beryllium		Metals	0	0	0	0	1	1	-
4	Cadmium**		Metals	0	0	0.51	0.02	1	1	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	1.2	1.1	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	1.2	1.1	
7	Copper**		Metals	0	0	1.4	0.69	4.9	3.4	0.388
8	Lead**		Metals	0	0	6.1	0.3	1	1	0.206
9	Mercury**		Metals	0	0	0	0	0.2	0.2	0.302
10	Nickel**		Metals	0	0	1.4	0.5	5.1	4.3	0.505
11	Selenium		Metals	0	0	1.2	0.1	7.1	3.4	-
12	Silver		Metals	0	0	0	0	1	1	-
13	Thallium		Metals	0	0	0	0	1	1	-
14	Zinc**		Metals	0	0	550	33.2	23.2	21.7	0.330
15	Cyanide		Metals	0	0	0	0	19.2	15.7	-
16	Total Phenolic Compounds		Metals	0	0	0	0	10	10	-
17	Hardness (As CaCO3)		Metals	0	0	88000	66000	136000	131000	-
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 Bromide		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	**Trichlorethylene***	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-Dintro-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)Fluoranthene		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	-

36	Enter Q_d = wastewater discharge flow from facility (MGD)
55.700244	Q_d = wastewater discharge flow (cfs) (this value is caluclated from the MGD)
0	Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
6436	Enter 7Q10, Q_s = background stream flow in cfs above point of discharge
4827	Enter or estimated, 1Q10, Q_s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
43901	Enter Mean Annual Flow, Q_s = background stream flow in cfs above point of discharge
11320	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 sheets	C_r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
66	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, 2018

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	-

Facility Name: Decatur Utilities WWTP

NPDES No.: AL0048593

Freshwater F&W classification					Max Daily Discharge as reported by Applicant (C_{dmax})	Freshwater Acute (µg/l) Q_s = 1Q10					Avg Daily Discharge as reported by Applicant (C_{avg})	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		Water Quality Criteria (C_r)	Draft Permit Limit (C_{dmax})	20% of Draft Permit Limit	RP?	Background from upstream source (Cd2) Monthly Avg		Water Quality Criteria (C_r)	Draft Permit Limit (C_{davg})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C_r)	Draft Permit Limit (C_{davg})	20% of Draft Permit Limit	RP?
1	Antimony			0	1.8	-	-	-	-	0	1.4	-	-	-	-	3.73E+02	4.35E+04	8.70E+03	No
2	Arsenic	YES	YES	0	0.082	592.334	51794.231	10358.846	No	0	0.063	261.324	30387.223	6077.445	No	3.03E-01	-2.34E+02	-4.68E+01	Yes
3	Berylium			0	1	-	-	-	-	0	1	-	-	-	-	-	-	-	-
4	Cadmium			0	1	6.690	455.107	91.021	No	0	1	0.781	88.690	17.738	No	-	-	-	-
5	Chromium/ Chromium III			0	1.2	1930.553	169232.885	33846.577	No	0	1.1	261.125	29267.920	5853.584	No	-	-	-	-
6	Chromium/ Chromium VI			0	1.2	16.000	1402.565	280.513	No	0	1.1	11.000	1282.018	256.404	No	-	-	-	-
7	Copper			0	4.9	23.416	1931.331	386.266	No	0	3.4	16.183	1806.404	361.281	No	-	-	-	-
8	Lead			0	1	198.662	16903.639	3380.728	No	0	1	7.749	868.500	173.700	No	-	-	-	-
9	Mercury			0	0.2	2.400	210.385	42.077	No	0	0.2	0.012	1.399	0.280	No	4.24E-02	4.94E+00	9.89E-01	No
10	Nickel			0	5.1	652.390	57067.393	11413.479	No	0	4.3	72.460	8367.274	1677.455	No	9.93E+02	1.16E+05	2.31E+04	No
11	Selenium			0	7.1	20.000	1649.214	329.843	No	0	3.4	5.000	571.181	114.236	No	2.43E+03	2.83E+05	5.67E+04	No
12	Silver			0	1	1.574	137.987	27.597	No	0	1	-	-	-	-	-	-	-	-
13	Thallium			0	1	-	-	-	-	0	1	-	-	-	-	2.74E-01	3.19E+01	6.38E+00	No
14	Zinc	YES		0	23.2	249.713	-25773.266	-5154.653	Yes	0	21.7	251.755	25505.197	5101.039	No	1.49E+04	1.73E+06	3.46E+05	No
15	Cyanide			0	19.2	22.000	1928.527	385.705	No	0	15.7	6.200	606.045	121.209	No	9.33E+03	1.09E+06	2.18E+05	No
16	Total Phenolic Compounds			0	10	-	-	-	-	0	10	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	136000	-	-	-	-	0	131000	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	5.43E+00	6.32E+02	1.26E+02	No
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.14E-01	1.14E+02	2.27E+01	No
20	Aldrin		YES	0	0	3.000	262.981	52.596	No	0	0	-	-	-	-	2.94E-05	2.32E-02	4.64E-03	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.55E+01	1.22E+04	2.44E+03	No
22	Bromoform		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.88E+01	6.22E+04	1.24E+04	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.67E-01	7.65E+02	1.51E+02	No
24	Chlordane		YES	0	0	2.400	210.385	42.077	No	0	0	0.0043	0.501	0.100	No	4.73E-04	3.73E-01	7.46E-02	No
25	Clorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.06E+02	1.06E+05	2.11E+04	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.43E+00	5.85E+03	1.17E+03	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	ChloroForm		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.02E+02	8.05E+04	1.61E+04	No
30	4,4' - DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	1.43E-01	2.86E-02	No
31	4,4' - DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	1.01E-01	2.02E-02	No
32	4,4' - DDT		YES	0	0	1.100	96.426	19.285	No	0	0	0.001	0.117	0.023	No	1.28E-04	1.01E-01	2.02E-02	No
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+01	7.92E+03	1.58E+03	No
34	1, 1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1, 2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	1.69E+04	3.37E+03	No
36	Trans-1, 2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	5.91E+03	6.68E+05	1.36E+05	No
37	1, 1-Dichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	3.29E+06	6.58E+05	No
38	1, 2-Dichloropropane			0	0	-	-	-	-	0	0	-	-	-	-	6.49E+00	9.90E+02	1.98E+02	No
39	1, 3-Dichloro-Propylene			0	0	-	-	-	-	0	0	-	-	-	-	1.23E+01	1.43E+03	2.86E+02	No
40	Dieldrin		YES	0	0	0.240	21.038	4.208	No	0	0	0.056	6.527	1.305	No	3.12E-05	2.46E-02	4.93E-03	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	1.45E+05	2.90E+04	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	1.02E+05	2.03E+04	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.46E+02	2.73E+05	5.46E+04	No
45	1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	1.84E+03	3.68E+02	No
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	1.51E+03	3.03E+02	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+03	1.02E+06	2.03E+05	No
48	Toxaphene		YES	0	0	0.730	63.992	12.798	No	0	0	0.0002	0.023	0.005	No	1.62E-04	1.28E-01	2.56E-02	No
49	Tributyltin (TBT)		YES	0	0	0.460	40.324	8.065	No	0	0	0.072	8.391	1.678	No	-	-	-	-
50	1, 1, 1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1, 1, 2-Trichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.10E+00	7.16E+03	1.44E+03	No
52	Trichlorethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.75E+01	1.38E+04	2.76E+03	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+00	1.12E+03	2.25E+02	No
54	P-Chloro-M-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	1.01E+04	2.03E+03	No
56	2, 4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	2.00E+04	4.01E+03	No
57	2, 4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.98E+02	5.80E+04	1.16E+04	No
58	4, 6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2, 4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	3.63E+05	7.25E+04	No
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.65E+02	1.31E+05	2.61E+04	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.67E-08	2.10E-05	4.21E-06	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	0.723	784.689	152.938	No	0	0	0.693	780.001	156.000	No	1.77E+00	1.39E+03	2.79E+02	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	5.00E+06	5.83E+07	1.17E+07	No
66	2, 4, 6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+00	1.12E+03	2.23E+02	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	6.74E+04	1.35E+04	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	2.72E+06	5.44E+05	No
70	Benzidine			0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	1.35E-02	2.70E-03	No
71	Benzo(A)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.41E+00	1.68E+00	No
72	Benzo(A)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.41E+00	1.68E+00	No
73	Benzo(b)fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.24E+00	2.48E-01	No
74	Benzo(GHI)Perylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
75	Benzo(K)Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.24E+00	2.48E-01	No
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
77	Bis (2-Chloroethyl)-Ether		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.07E-01	2.43E+02	4.85E+01	No
78	Bis (2-Chloroiso-Propyl) Ether			0	0	-	-	-	-	0	0	-	-	-	-	3.79E+04	4.40E+06	8.81E+05	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E+00	1.01E+03	2.02E+02	No
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
81	Butyl Benzyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	1.13E+03	1.31E+05	2.63E+04	No
82	2-Chloronaphthalene			0	0	-	-	-	-	0	0	-	-	-	-	9.24E+02	1.08E+05	2.15E+04	No
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
84	Chrysene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.41E+00	1.68E+00	No
85	Di-N-Butyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.62E+03	3.06E+05	6.11E+04	No
86	Di-N-Octyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
87	Dibenzo(A,H)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.41E+00	1.68E+00	No
88	1, 2-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	7.55E+02	8.80E+04	1.76E+04	No
89	1, 3-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	5.62E+02	6.55E+04	1.31E+04	No
90	1, 4-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.12E+02	1.31E+04	2.62E+03	No
91	3, 3-Dichlorobenzidine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.66E-02	1.31E+01	2.62E+00	No
92	Diethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.56E+04	2.98E+06	5.96E+05	No
93	Dimethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	6.48E+05	7.55E+07	1.51E+07	No
94	2, 4-Dinitrotoluene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	1.56E+03	3.13E+02	No
95	2, 6-Dinitrotoluene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
96	1,2-Diphenylhydrazine			0	0	-	-	-	-	0	0	-	-	-	-	1.17E-01	1.37E+01	2.73E+00	No
97	Endosulfan (alpha)		YES	0	0	0.22	19.285	3.857	No	0	0	0.056	6.527	1.305	No	5.19E+01	4.09E+04	8.18E+03	No
98	Endosulfan (beta)		YES	0	0	0.22	19.285	3.857	No	0	0	0.056	6.527	1.305	No	5.19E+01	4.09E+04	8.18E+03	No
99	Endosulfan sulfate		YES	0	0	-	-	-	-	0	0	-	-	-	-	5.19E+01	4.09E+04	8.18E+03	No
100	Endrin		YES	0	0	0.086	7.539	1.508	No	0	0	0.036	4.196	0.839	No	3.53E-02	2.78E+01	5.57E+00	No
101	Endrin Aldeyhde		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E-01	1.39E+02	2.78E+01	No
102	Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	8.12E+01	9.46E+03	1.89E+03	No
103	Fluorene			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	3.63E+05	7.25E+04	No
104	Heptochlor		YES	0	0	0.52	45.583	9.117	No	0	0	0.0038	0.443	0.089	No	4.63E-05	3.65E-02	7.31E-03	No
105	Heptachlor Epoxide		YES	0	0	0.52	45.583	9.117	No	0	0	0.0038	0.443	0.089	No	2.29E-05	1.81E-02	3.61E-03	No
106	Hexachlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.68E-04	1.32E-01	2.65E-02	No
107	Hexachlorobutadiene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.08E+01	8.48E+03	1.70E+03	No
108	Hexachlorocyclohexan (alpha)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.85E-03	2.25E+00	4.50E-01	No
109	Hexachlorocyclohexan (beta)		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-03	7.87E+00	1.57E+00	No
110	Hexachlorocyclohexan (gamma)		YES	0	0	0.16	63.277	19.655	No	0	0	-	-	-	-	1.08E+00	8.50E+02	1.70E+02	No
111	HexachlorocyclopPentadiene			0	0	-	-	-	-	0	0	-	-	-	-	9.45E+02	7.52E+04	1.50E+04	No

112	Hexachloroethane			0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	2.24E+02	4.47E+01	No
113	Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.41E+00	1.68E+00	No
114	Isophorone			0	0	-	-	-	-	0	0	-	-	-	-	5.61E+02	6.54E+04	1.31E+04	No
115	Naphthalene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
116	Nitrobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.04E+02	4.70E+04	9.41E+03	No
117	N-Nitrosodi-N-Propylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.95E-01	2.33E+02	4.66E+01	No
118	N-Nitrosodimethylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	1.39E+03	2.78E+02	No
119	N-Nitrosodiphenylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.50E+00	2.76E+03	5.53E+02	No
120	PCB-1016		YES	0	0	-	-	-	-	0	0	0.014	1.632	0.326	No	3.74E-05	2.95E-02	5.90E-03	No
121	PCB-1221		YES	0	0	-	-	-	-	0	0	0.014	1.632	0.326	No	3.74E-05	2.95E-02	5.90E-03	No
122	PCB-1232		YES	0	0	-	-	-	-	0	0	0.014	1.632	0.326	No	3.74E-05	2.95E-02	5.90E-03	No
123	PCB-1242		YES	0	0	-	-	-	-	0	0	0.014	1.632	0.326	No	3.74E-05	2.95E-02	5.90E-03	No
124	PCB-1248		YES	0	0	-	-	-	-	0	0	0.014	1.632	0.326	No	3.74E-05	2.95E-02	5.90E-03	No
125	PCB-1254		YES	0	0	-	-	-	-	0	0	0.014	1.632	0.326	No	3.74E-05	2.95E-02	5.90E-03	No
126	PCB-1260		YES	0	0	-	-	-	-	0	0	0.014	1.632	0.326	No	3.74E-05	2.95E-02	5.90E-03	No
127	Phenanthrene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
128	Pyrene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+03	2.72E+05	5.44E+04	No
129	1, 2, 4-Trichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.09E+01	4.77E+03	9.54E+02	No

LANCE R. LEFLEUR
DIRECTOR

ADEM

ROBERT J. BENTLEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov
1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

November 4, 2015

MEMORANDUM

To: Emily Anderson
Municipal Branch

From: Ross Caton
Water Quality Branch

Subject: Decatur Dry Creek WWTP Bacteria Limits

The Water Quality Branch has reviewed the Decatur Utilities Permit Modification Request for the Dry Creek Wastewater Treatment Plant submitted by TTL, Inc. The facility has requested that dilution be accounted for when determining their winter bacteria limits and has requested to use an IWC of 22.7% that was predicted by the CORMIX modeling performed by ADEM in 2009. After review, the WQ Branch has determined the IWC of 22.7% should be protective of human health in a Swimming Use Classification because the plume centerline is at a depth of 16.8 ft (5.12 meters), which is well below the criteria location of 28.6 ft (8.72 m) from the river bottom (criteria location = water depth – 5ft).

The following winter (October – May) limits were calculated for the Decatur Dry Creek WWTP:

	E. coli Col/100 mL
Daily Maximum	**1,035**
Monthly Average	**555**

REC/rec

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
(256) 353-1713
(256) 340-9359 (FAX)

Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
4171 Commanders Drive
Mobile, AL 36615-1421
(251) 432-6533
(251) 432-6598 (FAX)

Waste Load Allocation Summary

REQUEST INFORMATION

Request Number:	2485		
From:		In Branch/Section	Municipal
Date Submitted		Date Required	
FUND Code	605		
Receiving Waterbody	Tennessee River (Wheeler Lake)	Date Permit application received by NPDES program	
Previous Stream Name			
Facility Name	Decatur Utilities WWTP	(Name of Discharger-WQ will use to file)	
		Previous Discharger Name	
River Basin	Tennessee	Outfall Latitude	34.62642 (decimal degrees)
*County	Morgan	Outfall Longitude	-86.99873 (decimal degrees)
Permit Number	AL0048593	Permit Type	CONVERSION
		Permit Status	Active
		Type of Discharger	MUNICIPAL

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

If yes, impacting dischargers names.	Huntsville Aldrige Creek WWTP, Huntsville Spring Branch WWTP, PDR Properties, Inc., Huntsville West Area WWTP, Decatur Dry Creek WWTP, Solutia Inc. Decatur Plant, Daikin, 3M, BP Amoco, TVA Browns Ferry, Lucy Branch WWTP, IP Courtland, Joe Wheeler State Pa	Impacting dischargers permit numbers.	

Existing Discharge Design Flow	36	MGD
Proposed Discharge Design Flow		MGD

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

Comments included ☑ Yes ☐ No

Information Verified By	TJW	Year File Was Created	2010
		Response ID Number	1283
Lat/Long Method	GPS		
12 Digit HUC Code	060300021102		
Use Classification	S / F&W		
Site Visit Completed?	☑ Yes ☐ No	Date of Site Visit	12/1/2010
Waterbody Impaired?	☐ Yes ☑ No	Date of WLA Response	12/13/2010
Antidegradation	☐ Yes ☑ No	Approved TMDL?	☐ Yes ☑ No
Waterbody Tier Level	Tier II		
Use Support Category	1	Approval Date of TMDL	

Waste Load Allocation Information

Modeled Reach Length	76	Miles	Date of Allocation	12/13/2010
Name of Model Used	QUAL2E		Allocation Type	Annual
Model Completed by	Tyler Wingard		Type of Model Used	Desk-top
Allocation Developed by	Water Quality Branch			

Waste Load Allocation Summary

Annual Effluent Limits		
Qw	36	MGD
CBOD5	25	mg/L
NH3-N	20	mg/L
TKN		mg/L
D.O.		mg/L

Conventional Parameters					
Qw		MGD	Qw		MGD
Season			Season		
From			From		
Through			Through		
CBOD5		mg/L	CBOD5		mg/L
NH3-N		mg/L	NH3-N		mg/L
TKN		mg/L	TKN		mg/L
D.O.		mg/L	D.O.		mg/L

Other Parameters					
Qw		MGD	Qw		MGD
Season			Season		
From			From		
Through			Through		
TP		mg/L	TP		mg/L
TN		mg/L	TN		mg/L
TSS		mg/L	TSS		mg/L
		mg/L			mg/L

"Monitor Only" Parameters for Effluent:	Parameter	Frequency	Parameter	Frequency
	TKN	Monthly		
	TP	Monthly		
	NO2+NO3-N	Monthly		

Water Quality Characteristics Immediately Upstream of Discharge

Parameter	Summer		Winter	
CBODu	1.75	mg/l		mg/l
NH3-N	0.33	mg/l		mg/l
Temperature	28	°C		°C
pH	7	su		su

Hydrology at Discharge Location

Drainage Area Qualifier	Drainage Area			Method Used to Calculate
Exact	Drainage Area	26900	sq mi	
	Stream 7Q10	6436	cfs	ADEM Estimate w/TVA Gage Data
	Stream 1Q10	4827	cfs	75%of 7Q10
	Stream 7Q2	11320	cfs	ADEM Estimate w/TVA Gage Data
	Annual Average	43901	cfs	ADEM Estimate w/TVA Gage Data

Comments and/or Notations

SE 1/4 Sec. 02, T. 05S, R. 05W
PERMIT LIMIT FOR D.O. SHOULD BE WRITTEN AS "REPORT".

Mixing Zone Analysis Summary

REQUEST INFORMATION

request number: 3018

From: (Responsible Engineer) | In Branch/Section

Date Submitted | **Date Required** | **FUND Code** 605

Receiving Waterbody: Tennessee River

Date Permit application received by NPDES program:

Previous Stream Name:

Facility Name: Decatur Dry Creek WWTP (Name of Discharger-WQ will use to file)

Previous Discharger Name:

River Basin: Tennessee

Outfall Latitude: 34.62649 (decimal degrees)

***County:** Morgan

Outfall Longitude: -86.99886 (decimal degrees)

Permit Number: AL0048593

Permit Type: CONVERSION

Permit Status: 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.

Existing Discharge Design Flow: 36 MGD

Proposed Discharge Design Flow: MGD

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

Seasonal limits requested? ☐ Yes ☐ No

If not seasonal, only the summer sections will be used

Comments included ☑ Yes ☐ No

Information Verified By: JEH

Year File Was Started: 2003

12 Digit HUC Code: 060300021102

Date of MZ Response: 4/16/2009

Use Classification: S / F&W

Site Visit Completed? ☐ Yes ☑ No

Date of Site Visit:

Hydrology			Method Used to Calculate
Drainage Area	26950	sq mi	
Stream 7Q10	6150	cfs	ADEM Estimate w/TVA Data
Stream 1Q10	4600	cfs	75%of 7Q10
Stream 7Q2	11350	cfs	ADEM Estimate w/TVA Data
Annual Average		cfs	

Date of MZ Analysis: 3/31/2009

Model Completed by: Johnathan Hall

Pollutant Category

Whole Effluent Toxicity (WET) ☑ **Thermal** ☐ **Pathogens** ☑

Mixing Zone Analysis Summary

WET Parameters

Summer

Acute

Ambient Streamflow	4600	cfs
ZID Length	16.88	Meters
ZID IWC	22.3	%

Chronic

Ambient Streamflow	6150	cfs
Mixing Zone Length	228.6	Meters
Mixing Zone IWC	10.4	%

Winter

Acute

Ambient Streamflow		cfs
ZID Length	16.88	Meters
ZID IWC		%

Chronic

Ambient Streamflow		cfs
Mixing Zone Length	228.6	Meters
Mixing Zone IWC		%

Thermal Parameters

Summer

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

Winter

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

Pathogen Parameters

Summer

Ambient Streamflow	4600	cfs
ZID Length	16.88	Meters
Max. Effluent Fecal Conc	898	Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

Winter

Ambient Streamflow		cfs
ZID Length	16.88	Meters
Max. Effluent Fecal Conc		Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

Comments and/or Notations

Tennessee River Mile 303.3
NW 1.4 Sec. 7, T5S, R4W
223 SW - Decatur

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S		T/A	C
F	100000050794		D
1	2 — 13	14	15

LABEL ITEMS	
I. EPA I.D. NUMBER	PLEASE PLACE LABEL IN THIS SPACE
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)	X (16)	(17)	X (18)	B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)	(19)	X (20)	(21)
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	(22)	X (23)	(24)	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)	(25)	X (26)	(27)
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	(28)	X (29)	(30)	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	(31)	X (32)	(33)
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	(34)	X (35)	(36)	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)	(37)	X (38)	(39)
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	(40)	X (41)	(42)	J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)	(43)	X (44)	(45)

III. NAME OF FACILITY

C 1 SKIP Decatur Utilities Wastewater Treatment Plant (15, 16 – 29, 30 – 69)

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*: C 2 John Beard, WWTP Superintendent (15, 16 – 45)

B. PHONE *(area code & no.)*: (256) 552-1421 (46 – 48, 49 – 51, 52 – 55)

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX: C 3 P.O. Box 2232 (15, 16 – 45)

B. CITY OR TOWN: C 4 Decatur (15, 16 – 40)

C. STATE: AL (41 – 42)

D. ZIP CODE: 35609 (47 – 51)

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: C 5 902 Wilson Street NW (15, 16 – 45)

B. COUNTY NAME: Morgan (46 – 70)

C. CITY OR TOWN: C 6 Decatur (15, 16 – 40)

D. STATE: AL (41 – 42)

E. ZIP CODE: 35601 (47 – 51)

F. COUNTY CODE *(if known)* (52 – 54)

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CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
C 7 4952 (specify) SEWERAGE SYSTEM	C 7 (specify)
C. THIRD	**D. FOURTH**
C 7 (specify)	C 7 (specify)

VIII. OPERATOR INFORMATION

A. NAME	B. Is the name listed in Item VIII-A also the owner?
C 8 Decatur Utilities	☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*			D. PHONE *(area code & no.)*
F = FEDERAL S = STATE P = PRIVATE	M = PUBLIC *(other than federal or state)* O = OTHER *(specify)*	M (specify)	C A (256) 552-1440

E. STREET OR P.O. BOX
1002 Central Parkway

F. CITY OR TOWN	G. STATE	H. ZIP CODE	IX. INDIAN LAND
C B Decatur	AL	35601	Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	D. PSD *(Air Emissions from Proposed Sources)*
C T I 9 N AL0048593	C T I 9 P
B. UIC *(Underground Injection of Fluids)*	**E. OTHER** *(specify)*
C T I 9 U	C T I 9 ALL048593 (specify) Solids Disposal
C. RCRA *(Hazardous Wastes)*	**E. OTHER** *(specify)*
C T I 9 R	C T I 9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

36 MGD wastewater treatment plant with treatment processes which include: screening, grease and grit removal, pre-aeration, primary clarification, activated sludge, secondary clarification, chlorination and dechlorination. Sludge is anaerobically digested, thickened, dewatered and disposed of at the Decatur/Morgan County Landfill.

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Ray Hardin, General Manager	Ray Hardin	1/23/17

COMMENTS FOR OFFICIAL USE ONLY

C

FACILITY NAME AND PERMIT NUMBER:
DECATUR UTILITIES WWTP AL0048593

Form Approved 1/14/99
OMB Number 2040-0086

FORM **2A** NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

A. **Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.

B. **Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.

C. **Certification.** All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

D. **Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):

1. Has a design flow rate greater than or equal to 1 mgd,
2. Is required to have a pretreatment program (or has one in place), or
3. Is otherwise required by the permitting authority to provide the information.

E. **Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):

1. Has a design flow rate greater than or equal to 1 mgd,
2. Is required to have a pretreatment program (or has one in place), or
3. Is otherwise required by the permitting authority to submit results of toxicity testing.

F. **Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:

1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
2. Any other industrial user that:
   a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
   b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
   c. Is designated as an SIU by the control authority.

G. **Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

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EPA FORM 2A – PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS

NOTE:

A.9 Description of Outfall

b. Location – The Latitude and Longitude Coordinates have been updated to more accurately reflect the location of Outfall 0012, however the Outfall location has not changed.

A. 10 Description of Receiving Waters

e. Total hardness of receiving stream at critical low flow:

The blank would not accept text but should read **N/A** mg/l of CaCO3.

A.11 Description of Treatment

b. Design P Removal should read **N/A**.

Design N Removal should read **N/A**.

A.12 Effluent Testing Information

Decatur Utilities is providing data for ***E. Coli*** rather than ***Fecal Coliform***. See data below:

E. Coli

Maximum Daily Discharge -	(Concentration) = 1,054 (Units) = col/100ml
Average Daily Discharge -	(Concentration) = 11.8 (Units) = col/100ml
Number of Samples -	468
Analytical Method =	mColiBlue-24
ML/MDL =	10 col/100ml

FACILITY NAME AND PERMIT NUMBER:
DECATUR UTILITIES WWTP AL0048593

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BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

A.1. Facility Information.

Facility name: DECATUR UTILITIES WWTP

Mailing Address: P.O. BOX 2232, DECATUR, AL 35609-2232

Contact person: JOHN BEARD

Title: WASTEWATER TREATMENT PLANT SUPERINTENDENT

Telephone number: (256) 552-1421

Facility Address (not P.O. Box): 902 WILSON ST N.W., DECATUR, AL 35601

A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name: DECATUR UTILITIES

Mailing Address: P.O. BOX 2232
DECATUR, AL 35609-2232

Contact person: TOM CLEVELAND

Title: WATER RESOURCES MANAGER

Telephone number: (256) 301-4605

Is the applicant the owner or operator (or both) of the treatment works?

✓ owner ✓ operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

___ facility ✓ applicant

A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

NPDES	AL 0048593	PSD	
UIC		Other	EPA ALL048593
RCRA		Other	AL 0052221 WTP NPDES PERMIT

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name	Population Served	Type of Collection System	Ownership
CITY OF DECATUR	55,000	SEPARATE	MUNICIPAL
SO. LIMESTONE CNTY.	4,000	SEPARATE	COUNTY

Total population served 59,000

A.5. Indian Country.

a. Is the treatment works located in Indian Country?

____ Yes ✓ No

b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

____ Yes ✓ No

A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

a. Design flow rate 36.00 mgd

	Two Years Ago	Last Year	This Year	
b. Annual average daily flow rate	21.90	23.50	22.50	mgd
c. Maximum daily flow rate	46.10	60.40	61.40	mgd

A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

✓ Separate sanitary sewer 100.00 %

____ Combined storm and sanitary sewer ____ %

A.8. Discharges and Other Disposal Methods.

a. Does the treatment works discharge effluent to waters of the U.S.? ✓ Yes ____ No

If yes, list how many of each of the following types of discharge points the treatment works uses:

i. Discharges of treated effluent 1

ii. Discharges of untreated or partially treated effluent 0

iii. Combined sewer overflow points 0

iv. Constructed emergency overflows (prior to the headworks) 0

v. Other ____

b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? ____ Yes ✓ No

If yes, provide the following for each surface impoundment:

Location: ____

Annual average daily volume discharged to surface impoundment(s) ____ mgd

Is discharge ____ continuous or ____ intermittent?

c. Does the treatment works land-apply treated wastewater? ____ Yes ✓ No

If yes, provide the following for each land application site:

Location: ____

Number of acres: ____

Annual average daily volume applied to site: ____ Mgd

Is land application ____ continuous or ____ intermittent?

d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works? ____ Yes ✓ No

If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

_____

If transport is by a party other than the applicant, provide:

Transporter name: _____

Mailing Address: _____

_____

Contact person: _____

Title: _____

Telephone number: _____

For each treatment works that receives this discharge, provide the following:

Name: _____

Mailing Address: _____

_____

Contact person: _____

Title: _____

Telephone number: _____

If known, provide the NPDES permit number of the treatment works that receives this discharge. _____

Provide the average daily flow rate from the treatment works into the receiving facility. _____ mgd

e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)? _____ Yes ✓ No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

_____

Annual daily volume disposed of by this method: _____

Is disposal through this method _____ continuous or _____ intermittent?

FACILITY NAME AND PERMIT NUMBER:
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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 **once for each outfall** (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. **If you answered "no" to question A.8.a**, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

A.9. Description of Outfall.

a. Outfall number 0012

b. Location
DECATUR (City or town, if applicable) — 35601 (Zip Code)
MORGAN (County) — AL (State)
34 DEGREES 37' 44.40" N (Latitude) — 86 DEGREES 59' 52.80" W (Longitude)

c. Distance from shore (if applicable) 900.00 ft.

d. Depth below surface (if applicable) 37.00 ft.

e. Average daily flow rate 22.50 mgd

f. Does this outfall have either an intermittent or a periodic discharge? ____ Yes ✓ No (go to A.9.g.)

If yes, provide the following information:

Number of times per year discharge occurs: ____

Average duration of each discharge: ____

Average flow per discharge: ____ mgd

Months in which discharge occurs: ____

g. Is outfall equipped with a diffuser? ✓ Yes ____ No

A.10. Description of Receiving Waters.

a. Name of receiving water TENNESSEE RIVER

b. Name of watershed (if known) WHEELER LAKE

United States Soil Conservation Service 14-digit watershed code (if known): 10306030002380

c. Name of State Management/River Basin (if known): WHEELER BASIN

United States Geological Survey 8-digit hydrologic cataloging unit code (if known): 06030002

d. Critical low flow of receiving stream (if applicable):
acute 11,400.00 cfs chronic ____ cfs

e. Total hardness of receiving stream at critical low flow (if applicable): ____ mg/l of $CaCO_3$

FACILITY NAME AND PERMIT NUMBER:
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A.11. Description of Treatment.

a. What levels of treatment are provided? Check all that apply.

✓ Primary ✓ Secondary

___ Advanced ___ Other. Describe: ___

b. Indicate the following removal rates (as applicable):

Design BOD_5 removal or Design $CBOD_5$ removal	90.00	%
Design SS removal	90.00	%
Design P removal		%
Design N removal		%
Other ___		%

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Chlorination

If disinfection is by chlorination, is dechlorination used for this outfall? ✓ Yes ___ No

d. Does the treatment plant have post aeration? ___ Yes ✓ No

A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: 0012

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	6.10	s.u.			
pH (Maximum)	7.40	s.u.			
Flow Rate	61.40	MGD	22.95	MGD	1,095.00
Temperature (Winter)	88.00	degrees F	81.00	degrees F	1,095.00
Temperature (Summer)	105.00	degrees F	99.00	degrees F	1,095.00

* For pH please report a minimum and a maximum daily value

POLLUTANT		MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
		Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.								
BIOCHEMICAL OXYGEN	BOD-5							
DEMAND (Report one)	CBOD-5	42.70	mg/l	15.81	mg/l	1,074.00	SM 5310	0
FECAL COLIFORM			TESTED		FOR		E COLI	
TOTAL SUSPENDED SOLIDS (TSS)		94.00	mg/l	9.19	mg/l	1,073.00	SM 2540 D	0

END OF PART A.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

BASIC APPLICATION INFORMATION

PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

6,600.00 gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

DU continues to spend in excess of one million dollars annually to repair mains and manholes.

B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)

a. The area surrounding the treatment plant, including all unit processes.

b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.

c. Each well where wastewater from the treatment plant is injected underground.

d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.

e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.

f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g, chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

B.4. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? ✓ Yes ___ No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: SYNAGRO

Mailing Address: 501 WOODALL ROAD DECATUR, ALABAMA 35601

Telephone Number: (256) 351-0959

Responsibilities of Contractor: SLUDGE PRESSING AND DISPOSAL

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

0012

b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

___ Yes ✓ No

c If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

_____

d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

Implementation Stage	Schedule MM / DD / YYYY	Actual Completion MM / DD / YYYY
– Begin construction	___/___/_____	___/___/_____
– End construction	___/___/_____	___/___/_____
– Begin discharge	___/___/_____	___/___/_____
– Attain operational level	___/___/_____	___/___/_____

e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? ____Yes ____No

Describe briefly: _____

B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: 0012

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
AMMONIA (as N)	14.00	mg/l	6.20	mg/l	3.00	SM 4500 NH3-C	0.06
CHLORINE (TOTAL RESIDUAL, TRC)	0.68	mg/l	0.50	mg/l	3.00	SM 4500 Cl-D	0
DISSOLVED OXYGEN	7.68	mg/l	6.92	mg/l	3.00	SM 4500 O G	0
TOTAL KJELDAHL NITROGEN (TKN)	16.50	mg/l	8.57	mg/l	3.00	SM 4500-Norg C	0.89
NITRATE PLUS NITRITE NITROGEN	13.30	mg/l	7.00	mg/l	3.00	EPA 300	0.011
OIL and GREASE	5.00	mg/l	5.00	mg/l	3.00	EPA 1665A	2.98
PHOSPHORUS (Total)	2.54	mg/l	1.51	mg/l	3.00	EPA 365.3	0.012
TOTAL DISSOLVED SOLIDS (TDS)	583.00	mg/l	420.70	mg/l	3.00	SM 2540C	1
OTHER							

END OF PART B.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

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BASIC APPLICATION INFORMATION

PART C. CERTIFICATION

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

✓ Basic Application Information packet

Supplemental Application Information packet:

✓ Part D (Expanded Effluent Testing Data)

✓ Part E (Toxicity Testing: Biomonitoring Data)

✓ Part F (Industrial User Discharges and RCRA/CERCLA Wastes)

____ Part G (Combined Sewer Systems)

ALL APPLICANTS MUST COMPLETE 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 the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title: Ray Hardin (General Manager)

Signature: Ray Hardin

Telephone number: (256) 552-1472

Date signed: 1/23/17

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

EPA FORM 2A – PART D. EXPANDED TESTING DATA

NOTE:

1. On page 14, for the pollutant "Nitrobenzene", the Analytical Method cell would not accept text. The text should read **EPA 625**.

EPA FORM 2A – PART E. TOXICITY TESTING DATA

NOTE:

E.1. Required Tests

This section should read "8" in the text box next to acute. The blank would not accept number values.

E.2.b Give toxicity test method follow

Manual Title (for all pages)

"Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition (October 2002)".

E.2.l Test Results (Acute)

The blanks for the 95% C.I. would not accept the range values.

Test 1 – 95% C.I. – **0.64-0.78**

Test 2 – 95% C.I. – **0.26-0.33**

Test 3 – 95% C.I. – **0.73-0.90**

Test 4 – 95% C.I. – **0.28-0.37**

Test 5 – 95% C.I. – **0.61-0.79**

Test 6 – 95% C.I. – **0.35-0.41**

Test 7 – 95% C.I. – **0.53-0.77**

Test 8 – 95% C.I. – N/A – 95% Confidence Interval not reliable

FACILITY NAME AND PERMIT NUMBER:
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SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 0012 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.											
ANTIMONY	0.0018	mg/l	0.224	lbs	0.0014	mg/l	0.247	lbs	3	EPA 200.8	0.0000227
ARSENIC	0.0034	mg/l	0.429	lbs	0.0016	mg/l	0.279	lbs	3	EPA 200.8	0.000079
BERYLLIUM	0.0010	mg/l	0.209	lbs	0.0010	mg/l	0.178	lbs	3	EPA 200.8	0.0000168
CADMIUM	0.0010	mg/l	0.209	lbs	0.0010	mg/l	0.178	lbs	3	EPA 200.8	0.0000199
CHROMIUM	0.0012	mg/l	0.241	lbs	0.0011	mg/l	0.187	lbs	3	EPA 200.8	0.0000596
COPPER	0.0049	mg/l	0.611	lbs	0.0034	mg/l	0.605	lbs	3	EPA 200.8	0.00086
LEAD	0.0010	mg/l	0.209	lbs	0.0010	mg/l	0.178	lbs	3	EPA 200.8	0.000166
MERCURY	0.0002	mg/l	0.042	lbs	0.0002	mg/l	0.036	lbs	3	EPA 245.1	0.0000153
NICKEL	0.0051	mg/l	0.642	lbs	0.0043	mg/l	0.772	lbs	3	EPA 200.8	0.0000116
SELENIUM	0.0071	mg/l	0.895	lbs	0.0034	mg/l	0.607	lbs	3	EPA 200.8	0.000128
SILVER	0.0010	mg/l	0.209	lbs	0.0010	mg/l	0.178	lbs	3	EPA 200.8	0.000013
THALLIUM	0.0010	mg/l	0.209	lbs	0.0010	mg/l	0.178	lbs	3	EPA 200.8	0.00144
ZINC	0.0232	mg/l	4.855	lbs	0.0217	mg/l	3.87	lbs	3	EPA 200.8	0.000151
CYANIDE	0.0192	mg/l	4.018	lbs	0.0157	mg/l	2.80	lbs	3	ASTM D7511-09	0.00111
TOTAL PHENOLIC COMPOUNDS	0.0100	mg/l	2.093	lbs	0.0100	mg/l	1.78	lbs	3	EPA 420.1	0.0034
HARDNESS (AS $CaCO_3$)	136.00	mg/l	27108	lbs	131.00	mg/l	23406	lbs	3	EPA 200.7	0.1
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.											

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POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
VOLATILE ORGANIC COMPOUNDS.											
ACROLEIN	<20	ug/l	<2.52	lbs	<10	ug/l	<1.78	lbs	3	EPA 624	0.915
ACRYLONITRILE	<5	ug/l	<1.05	lbs	<4.7	ug/l	<0.83	lbs	3	EPA 624	0.280
BENZENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.236
BROMOFORM	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.459
CARBON TETRACHLORIDE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.239
CLOROBENZENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.232
CHLORODIBROMO-METHANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.407
CHLOROETHANE	<5	ug/l	<1.05	lbs	<5	ug/l	<0.89	lbs	3	EPA 624	0.181
2-CHLORO-ETHYLVINYL ETHER	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.305
CHLOROFORM	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.254
DICHLOROBROMO-METHANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.407
1,1-DICHLOROETHANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.314
1,2-DICHLOROETHANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.292
TRANS-1,2-DICHLORO-ETHYLENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.351
1,1-DICHLOROETHYLENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.312
1,2-DICHLOROPROPANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.264
1,3-DICHLORO-PROPYLENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.295
ETHYLBENZENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.295
METHYL BROMIDE	<5	ug/l	<1.05	lbs	<5	ug/l	<0.89	lbs	3	EPA 624	0.304
METHYL CHLORIDE	<5	ug/l	<1.05	lbs	<5	ug/l	<0.89	lbs	3	EPA 624	0.344
METHYLENE CHLORIDE	<5	ug/l	<1.05	lbs	<5	ug/l	<0.89	lbs	3	EPA 624	0.432
1,1,2,2-TETRACHLORO-ETHANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.248
TETRACHLORO-ETHYLENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.181
TOLUENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.243

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POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
1,1,1-TRICHLOROETHANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.218
1,1,2-TRICHLOROETHANE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.390
TRICHLORETHYLENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 624	0.327
VINYL CHLORIDE	<5	ug/l	<1.05	lbs	<3.8	ug/l	<0.68	lbs	3	EPA 624	0.346
Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.											
ACID-EXTRACTABLE COMPOUNDS											
P-CHLORO-M-CRESOL	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.315
2-CHLOROPHENOL	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0850
2,4-DICHLOROPHENOL	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0810
2,4-DIMETHYLPHENOL	<26	ug/l	<5.18	lbs	<15.3	ug/l	<2.73	lbs	3	EPA 625	0.155
4,6-DINITRO-O-CRESOL	<51	ug/l	<10.17	lbs	<30.3	ug/l	<5.41	lbs	3	EPA 625	0.0700
2,4-DINITROPHENOL	<51	ug/l	<10.17	lbs	<40.3	ug/l	<7.19	lbs	3	EPA 625	0.0810
2-NITROPHENOL	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.0850
4-NITROPHENOL	<51	ug/l	<10.17	lbs	<25.3	ug/l	<4.52	lbs	3	EPA 625	0.0310
PENTACHLOROPHENOL	<51	ug/l	<10.17	lbs	<27	ug/l	<4.81	lbs	3	EPA 625	0.108
PHENOL	<5.1	ug/l	<1.02	lbs	<3.2	ug/l	<0.57	lbs	3	EPA 625	0.0500
2,4,6-TRICHLOROPHENOL	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.100
Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.											
BASE-NEUTRAL COMPOUNDS.											
ACENAPHTHENE	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.0770
ACENAPHTHYLENE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.109
ANTHRACENE	<20	ug/l	<2.52	lbs	<10.2	ug/l	<1.82	lbs	3	EPA 625	0.128
BENZIDINE	<76	ug/l	<15.15	lbs	<52	ug/l	<9.27	lbs	3	EPA 625	1.00
BENZO(A)ANTHRACENE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0770
BENZO(A)PYRENE	<8.7	ug/l	<1.73	lbs	<5.6	ug/l	<0.99	lbs	3	EPA 625	0.100

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POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
3,4 BENZO-FLUORANTHENE	<7.7	ug/l	<1.53	lbs	<5.5	ug/l	<0.99	lbs	3	EPA 625	0.0740
BENZO(GHI)PERYLENE	<10	ug/l	<1.99	lbs	<8.0	ug/l	<1.43	lbs	3	EPA 625	0.0820
BENZO(K)FLUORANTHENE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0540
BIS (2-CHLOROETHOXY) METHANE	<7.7	ug/l	<1.47	lbs	<5.1	ug/l	<0.91	lbs	3	EPA 625	0.0830
BIS (2-CHLOROETHYL)-ETHER	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.0730
BIS (2-CHLOROISO-PROPYL) ETHER	<7.7	ug/l	<1.53	lbs	<5.23	ug/l	<0.93	lbs	3	EPA 625	0.079
BIS (2-ETHYLHEXYL) PHTHALATE	<26	ug/l	<5.18	lbs	<15.3	ug/l	<2.73	lbs	3	EPA 625	0.193
4-BROMOPHENYL PHENYL ETHER	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.100
BUTYL BENZYL PHTHALATE	<26	ug/l	<5.18	lbs	<15.3	ug/l	<2.73	lbs	3	EPA 625	0.162
2-CHLORONAPHTHALENE	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.100
4-CHLORPHENYL PHENYL ETHER	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0940
CHRYSENE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0570
DI-N-BUTYL PHTHALATE	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.100
DI-N-OCTYL PHTHALATE	<15	ug/l	<2.99	lbs	<10.3	ug/l	<1.84	lbs	3	EPA 625	0.162
DIBENZO(A,H) ANTHRACENE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.102
1,2-DICHLOROBENZENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 625	0.261
1,3-DICHLOROBENZENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 625	0.331
1,4-DICHLOROBENZENE	<3	ug/l	<0.63	lbs	<3	ug/l	<0.53	lbs	3	EPA 625	0.285
3,3-DICHLOROBENZIDINE	<15	ug/l	<2.99	lbs	<10.3	ug/l	<1.84	lbs	3	EPA 625	0.200
DIETHYL PHTHALATE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.0970
DIMETHYL PHTHALATE	<10	ug/l	<1.99	lbs	<8.0	ug/l	<1.43	lbs	3	EPA 625	0.0930
2,4-DINITROTOLUENE	<10	ug/l	<1.99	lbs	<6.3	ug/l	<1.13	lbs	3	EPA 625	0.0720
2,6-DINITROTOLUENE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0840
1,2-DIPHENYLHYDRAZINE	<10	ug/l	<1.99	lbs	<8.0	ug/l	<1.43	lbs	3	EPA 625	0.0940

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POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
FLUORANTHENE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0840
FLUORENE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.100
HEXACHLOROBENZENE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.0880
HEXACHLOROBUTADIENE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.0590
HEXACHLOROCYCLO-PENTADIENE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.0850
HEXACHLOROETHANE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.0660
INDENO(1,2,3-CD)PYRENE	<13	ug/l	<2.59	lbs	<9.3	ug/l	<1.66	lbs	3	EPA 625	0.151
ISOPHORONE	<10	ug/l	<1.99	lbs	<9.0	ug/l	<1.60	lbs	3	EPA 625	0.0820
NAPHTHALENE	<5.1	ug/l	<1.02	lbs	<4.03	ug/l	<0.72	lbs	3	EPA 625	0.0880
NITROBENZENE	<15	ug/l	<2.99	lbs	<8.7	ug/l	<1.55	lbs	3		0.0770
N-NITROSODI-N-PROPYLAMINE	<10	ug/l	<1.26	lbs	<6.9	ug/l	<1.23	lbs	3	EPA 625	0.0880
N-NITROSODI- METHYLAMINE	<20	ug/l	<3.99	lbs	<12.7	ug/l	<2.26	lbs	3	EPA 625	0.180
N-NITROSODI-PHENYLAMINE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.100
PHENANTHRENE	<5.1	ug/l	<1.02	lbs	<4.03	ug/l	<0.72	lbs	3	EPA 625	0.0810
PYRENE	<15	ug/l	<2.99	lbs	<10.3	ug/l	<1.84	lbs	3	EPA 625	0.0620
1,2,4-TRICHLOROBENZENE	<7.7	ug/l	<1.53	lbs	<5.2	ug/l	<0.93	lbs	3	EPA 625	0.0740

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____chronic ✓ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

	Test number: 1	Test number: 2	Test number: 3
a. Test information.			
Test species & test method number	PIMEPHALES PROMELAS	CERIODAPHNIA DUBIA	PIMEPHALES PROMELAS
Age at initiation of test	<48 HOURS	<24 HOURS	<24 HOURS
Outfall number	DSN0012	DSN0012	DSN0012
Dates sample collected	09/25/2013	09/25/2013	09/02/2014
Date test started	09/27/2013	09/27/2013	09/03/2014
Duration	48 HOURS	48 HOURS	48 HOURS
b. Give toxicity test methods followed.			
Manual title	SEE ATTACHMENT	SEE ATTACHMENT	SEE ATTACHMENT
Edition number and year of publication	5TH ED., OCTOBER 2002	5TH ED., OCTOBER 2002	5TH ED., OCTOBER 2002
Page number(s)	41-66	41-66	41-66
c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.			
24-Hour composite	X	X	X
Grab			
d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)			
Before disinfection			
After disinfection	X	X	X
After dechlorination	X	X	X

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	Test number: 1.00	Test number: 2.00	Test number: 3.00
e. Describe the point in the treatment process at which the sample was collected.			
Sample was collected:	FINAL EFFLUENT	FINAL EFFLUENT	FINAL EFFLUENT
f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.			
Chronic toxicity			
Acute toxicity	X	X	X
g. Provide the type of test performed.			
Static	X	X	X
Static-renewal			
Flow-through			
h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.			
Laboratory water	MHSFW	MHSFW	MHSFW
Receiving water			
i. Type of dilution water. It salt water, specify "natural" or type of artificial sea salts or brine used.			
Fresh water	MHSFW	MHSFW	MHSFW
Salt water			
j. Give the percentage effluent used for all concentrations in the test series.			
	0%	0%	0%
	23%	23%	23%
k. Parameters measured during the test. (State whether parameter meets test method specifications)			
pH	7.72	7.38	6.89
Salinity	N/A	N/A	N/A
Temperature	YES - 24.4-25.0 DEGREES C	YES - 23.6-24.8 DEGREES C	YES - 23.8-24.9 DEGREES C
Ammonia	YES - 0.12 mg/l	YES - 0.12 mg/l	YES - 0.12 mg/l
Dissolved oxygen	YES - 8.0 - 8.0 mg/l	YES - 7.9 - 8.4 mg/l	YES - 8.0 - 8.0 mg/l
l. Test Results.			
Acute:			
Percent survival in 100% effluent	95.00 %	100.00 %	100.00 %
LC_{50}	0.71	0.29	0.81
95% C.I.	%	%	%
Control percent survival	95.00 %	100.00 %	100.00 %
Other (describe)			

Chronic:			
NOEC	%	%	%
IC_{25}	%	%	%
Control percent survival	%	%	%
Other (describe)			
m. Quality Control/Quality Assurance.			
Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	09/25/2013	09/25/2013	09/03/2014
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

____Yes ✓ No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

N/A

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

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SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____chronic ✓ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

	Test number: 4	Test number: 5	Test number: 6
a. Test information.			
Test species & test method number	CERIODAPHNIA DUBIA	PIMEPHALES PROMELAS	CERIODAPHNIA DUBIA
Age at initiation of test	<24 HOURS	<48 HOURS	<24 HOURS
Outfall number	DSN0012	DSN0012	DSN0012
Dates sample collected	09/02/2014	09/02/2015	09/02/2015
Date test started	09/03/2014	09/02/2015	09/02/2015
Duration	48 HOURS	48 HOURS	48 HOURS
b. Give toxicity test methods followed.			
Manual title	SEE ATTACHMENT	SEE ATTACHMENT	SEE ATTACHMENT
Edition number and year of publication	5TH ED., OCTOBER 2002	5TH ED., OCTOBER 2002	5TH ED., OCTOBER 2002
Page number(s)	41-66	41-66	41-66
c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.			
24-Hour composite	X	X	X
Grab			
d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)			
Before disinfection			
After disinfection	X	X	X
After dechlorination	X	X	X

FACILITY NAME AND PERMIT NUMBER:
DECATUR UTILITIES WWTP AL0048593

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	Test number: 4.00	Test number: 5.00	Test number: 6.00
e. Describe the point in the treatment process at which the sample was collected.			
Sample was collected:	FINAL EFFLUENT	FINAL EFFLUENT	FINAL EFFLUENT
f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.			
Chronic toxicity			
Acute toxicity	X	X	X
g. Provide the type of test performed.			
Static	X	X	X
Static-renewal			
Flow-through			
h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.			
Laboratory water	MHSFW	MHSFW	MHSFW
Receiving water			
i. Type of dilution water. It salt water, specify "natural" or type of artificial sea salts or brine used.			
Fresh water	MHSFW	MHSFW	MHSFW
Salt water			
j. Give the percentage effluent used for all concentrations in the test series.			
	0%	0%	0%
	23%	23%	23%
k. Parameters measured during the test. (State whether parameter meets test method specifications)			
pH	7.90	7.9	6.72
Salinity	N/A	N/A	N/A
Temperature	YES - 23.3-24.9 DEGREES C	YES - 24.3-25.0 DEGREES C	YES - 23.2-25.0 DEGREES C
Ammonia	YES - 0.12 mg/l	YES - 0.38 mg/l	YES - 0.38 mg/l
Dissolved oxygen	YES - 7.9-8.0 mg/l	YES - 7.9-8.0 mg/l	YES - 7.9-8.0 mg/l
l. Test Results.			
Acute:			
Percent survival in 100% effluent	100.00 %	95.00 %	100.00 %
LC_{50}	0.32	0.69	0.38
95% C.I.	%	%	%
Control percent survival	100.00 %	95.00 %	100.00 %
Other (describe)			

Chronic:			
NOEC	%	%	%
IC_{25}	%	%	%
Control percent survival	%	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	09/03/2014	09/02/2015	09/02/2015
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

____Yes ✓ No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

N/A

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____chronic ✓ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

	Test number: 7	Test number: 8	Test number:
a. Test information.			
Test species & test method number	PIMEPHALES PROMELAS	CERIODAPHNIA DUBIA	
Age at initiation of test	<48 HOURS	<24 HOURS	
Outfall number	DSN0012	DSN0012	
Dates sample collected	09/06/2016	09/06/2016	
Date test started	09/08/2016	09/08/2016	
Duration	48 HOURS	48 HOURS	
b. Give toxicity test methods followed.			
Manual title	SEE ATTACHMENT	SEE ATTACHMENT	
Edition number and year of publication	5TH ED., OCTOBER 2002	5TH ED., OCTOBER 2002	
Page number(s)	41-66	41-66	
c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.			
24-Hour composite	X	X	
Grab			
d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)			
Before disinfection			
After disinfection	X	X	
After dechlorination	X	X	

FACILITY NAME AND PERMIT NUMBER:
DECATUR UTILITIES WWTP AL0048593

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	Test number: 7.00	Test number: 8.00	Test number:
e. Describe the point in the treatment process at which the sample was collected.			
Sample was collected:	FINAL EFFLUENT	FINAL EFFLUENT	
f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.			
Chronic toxicity			
Acute toxicity	X	X	
g. Provide the type of test performed.			
Static	X	X	
Static-renewal			
Flow-through			
h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.			
Laboratory water	MHSFW	MHSFW	
Receiving water			
i. Type of dilution water. It salt water, specify "natural" or type of artificial sea salts or brine used.			
Fresh water	MHSFW	MHSFW	
Salt water			
j. Give the percentage effluent used for all concentrations in the test series.			
	0%	0%	
	23%	23%	
k. Parameters measured during the test. (State whether parameter meets test method specifications)			
pH	7.19	6.73	
Salinity	N/A	N/A	
Temperature	YES - 24.3-25.0 DEGREES C	YES - 23.1-25.0 DEGREES C	
Ammonia	YES - 0.22 mg/l	YES - 0.22 mg/l	
Dissolved oxygen	YES - 7.9-8.0 mg/l	YES - 8.0-8.0 mg/l	
l. Test Results.			
Acute:			
Percent survival in 100% effluent	100.00 %	100.00 %	%
LC_{50}	0.64	0.35	
95% C.I.	%	%	%
Control percent survival	100.00 %	100.00 %	%
Other (describe)			

Chronic:			
NOEC	%	%	%
IC_{25}	%	%	%
Control percent survival	%	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	YES	YES	
Was reference toxicant test within acceptable bounds?	YES	YES	
What date was reference toxicant test run (MM/DD/YYYY)?	09/08/2016	09/08/2016	
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

___Yes ✓ No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

N/A

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

FACILITY NAME AND PERMIT NUMBER:
DECATUR UTILITIES WWTP AL0048593

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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?

✓ Yes ___ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. 25.00

b. Number of CIUs. 17.00

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: SEE ATTACHMENTS

Mailing Address: _____

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

_____

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): _____

Raw material(s): _____

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

_____ gpd (____continuous or _____intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

_____ gpd (____continuous or _____intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ____Yes ____No

b. Categorical pretreatment standards ____Yes ____No

If subject to categorical pretreatment standards, which category and subcategory?

_____

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F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

____Yes____No If yes, describe each episode.

_____

_____

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? ____Yes ✓ No (go to F.12.)

F.10. Waste Transport. Method by which RCRA waste is received (check all that apply):

_____Truck _____Rail _____Dedicated Pipe

F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste Number	Amount	Units

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

____Yes (complete F.13 through F.15.) ✓ No

Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.

F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

_____

_____

_____

F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

_____

_____

F.15. Waste Treatment.

a. Is this waste treated (or will it be treated) prior to entering the treatment works?

____Yes ____No

If yes, describe the treatment (provide information about the removal efficiency):

_____

_____

b. Is the discharge (or will the discharge be) continuous or intermittent?

____Continuous ____Intermittent If intermittent, describe discharge schedule.

_____

END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:
DECATUR UTILITIES WWTP AL0048593

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SUPPLEMENTAL APPLICATION INFORMATION

PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)

a. All CSO discharge points.

b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).

c. Waters that support threatened and endangered species potentially affected by CSOs.

G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:

a. Locations of major sewer trunk lines, both combined and separate sanitary.

b. Locations of points where separate sanitary sewers feed into the combined sewer system.

c. Locations of in-line and off-line storage structures.

d. Locations of flow-regulating devices.

e. Locations of pump stations.

CSO OUTFALLS:

Complete questions G.3 through G.6 once for each CSO discharge point.

G.3. Description of Outfall.

a. Outfall number _____

b. Location _____
(City or town, if applicable) (Zip Code)

_____
(County) (State)

_____
(Latitude) (Longitude)

c. Distance from shore (if applicable) _____ft.

d. Depth below surface (if applicable) _____ft.

e. Which of the following were monitored during the last year for this CSO?

____Rainfall ____CSO pollutant concentrations ____CSO frequency

____CSO flow volume ____Receiving water quality

f. How many storm events were monitored during the last year? _____

G.4. CSO Events.

a. Give the number of CSO events in the last year.

_____ events (___ actual or ___ approx.)

b. Give the average duration per CSO event.

_____ hours (____ actual or ____ approx.)

c. Give the average volume per CSO event.

_____ million gallons (_____ actual or _____ approx.)

d. Give the minimum rainfall that caused a CSO event in the last year.

_____ inches of rainfall

G.5. Description of Receiving Waters.

a. Name of receiving water: _____

b. Name of watershed/river/stream system: _____

United States Soil Conservation Service 14-digit watershed code (if known): _____

c. Name of State Management/River Basin: _____

United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____

G.6. CSO Operations.

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

_____

_____

END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

SUPPLEMENTARY INFORMATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT APPLICATION FORM 188- Municipal, Semi-Public & Private Facilities

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – MUNICIPAL PERMIT SECTION
POST OFFICE BOX 301463
MONTGOMERY, ALABAMA 36130-1463

INSTRUCTIONS: **APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO THE DEPARTMENT. PLEASE CONTINUE ON AN ATTACHED SHEET OF PAPER IF INSUFFICIENT SPACE IS AVAILABLE TO ADDRESS ANY ITEM BELOW. PLEASE MARK N/A IN THE APPROPRIATE BOX WHEN AN ITEM IS NON-APPLICABLE TO THE APPLICANT.**

PURPOSE OF THIS APPLICATION

- ☐ INITIAL PERMIT APPLICATION FOR NEW FACILITY
- ☐ INITIAL PERMIT APPLICATION FOR EXISTING FACILITY
- ☐ MODIFICATION OF EXISTING PERMIT
- ☑ REISSUANCE OF EXISTING PERMIT
- ☐ REVOCATION & REISSUANCE OF EXISTING PERMIT

SECTION A – GENERAL INFORMATION

1. Facility Name: DECATUR UTILTIES WASTEWATER TREATMENT PLANT
   a. Operator Name: DECATUR UTILITIES
   b. Is the operator identified in 1.a, the owner of the facility? Yes ☑ No ☐
   If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.
   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 0048593 (Not applicable if initial permit application)
3. Facility Location: (**Attach a map with location marked; street, route no. or other specific identifier**)
   Street: 902 WILSON STREET N.W.
   City: DECATUR County: MORGAN State: ALABAMA Zip: 35601
   Facility (Front Gate) Location: Latitude (Deg Min Sec): 34 - 37' - 15" N Longitude (Deg. Min Sec): 86 - 59' - 49" W
4. Facility Mailing Address (Street or Post Office Box): P.O. BOX 2232
   City: DECATUR County: MORGAN State: ALABAMA Zip: 35609-2232
5. Responsible Official (as described on page 6 of this application):
   Name and Title: RAY HARDIN, GENERAL MANAGER
   Address: P.O. BOX 2232 (1002 CENTRAL PARKWAY S.W.)
   City: DECATUR State: ALABAMA Zip: 35609-2232
   Phone Number: 256-552-1472
   Email Address: (Optional): RHARDIN@DECATURUTILITIES.COM

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6. Designated Facility/DMR Contact:

Name and Title: JOHN BEARD, WWTP SUPERINTENDENT

Phone Number: 256-552-1421

DMR Email Address (Optional – for receipt of blank DMR Forms): JBEARD@DECATURUTILITIES.COM

7. Designated Emergency Contact:

Name and Title: TOM CLEVELAND, WATER RESOURCES MANAGER

Phone Number: 256-301-4605

Email Address **(Required)**: TCLEVELAND@DECATURUTILITIES.COM

8. Please complete this section if the Applicant's business entity is a Proprietorship or limited liability Corporation with a responsible official not listed in Item 5.

a) Proprietor:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

9. Permit numbers for Applicant's previously issued NPDES Permits and identification of any other State Environmental Permits presently held by the Applicant within the State of Alabama:

Permit Name	Permit Number	Held by
DECATUR UTILITIES	AL0052221	WATER TREATMENT PLANT
DECATUR UTILITIES	AL0048593	WASTEWATER TREATMENT PLANT

10. 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

SECTION B – WASTEWATER DISCHARGE INFORMATION

1. List the following historical monthly flow rates recorded for the past five years for each outfall:

Outfall Number	Highest in Last 12 Months MGD	Highest Daily Flow MGD	Average Flow MGD
0012	34.3	61.4	21.2

2. Attach a process flow schematic of the treatment process, including the size of each unit operation.

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:

LOCATED AT THE INFLUENT HEADWORKS AND EFFLUENT DISCHARGE FLUME.

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 ☐

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

CHLORINE CONTACT BASIN EXPANSION TO ENHANCE CHLORINE CONTACT TIME.

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
WASTEWATER TREATMENT PLANT BIO-SOLIDS	CONTAINED CONCRETE STORAGE PAD AT REAR OF WASTEWATER TREATMENT PLANT.

Describe the location of any sites used for the ultimate disposal of solid or liquid waste materials or residuals (e.g. sludges) generated by any wastewater treatment system located at the facility.

Description of Waste	Quantity (lbs/day)	Disposal Method*
WASTEWATER TREATMENT PLANT BIO-SOLIDS	85,296	ALL BIO-SOLIDS ARE DEWATERED AND DISPOSED OF AT THE DECATUR/MORGAN COUNTY LANDFILL.

***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? Y/N
	SEE ATTACHMENT FOR PART F.3. - F.8.			
	OF NPDES FORM 2A			

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance? Yes ☑ No ☐
If so, 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, then complete items A through M below:

		YES	NO
A.	Does the project require new construction?	☐	☐
B.	Will the project be a source of new air emissions?	☐	☐
C.	Does the project involve dredging and/or filling of a wetland area or water way?	☐	☐
	Has the Corps of Engineers (COE) permit been issued?	☐	☐
	Corps Project Number _____		
D.	Does the project involve wetlands and/or submersed grassbeds?	☐	☐
E.	Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs)	☐	☐
F.	Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)?	☐	☐
G.	Does the project involve mitigation of shoreline or coastal area erosion?	☐	☐
H.	Does the project involve construction on beaches or dunes areas?	☐	☐
I.	Will the project interfere with public access to coastal waters?	☐	☐
J.	Does the project lie within the 100-year floodplain?	☐	☐
K.	Does the project involve the registration, sale, use, or application of pesticides?	☐	☐
L.	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)?	☐	☐
M.	Has the applicable permit for groundwater recovery or for groundwater well installation been obtained?	☐	☐

SECTION F – ANTI-DEGRADATION EVALUATION

It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity, if subject to antidegradation requirements. In accordance with 40 CFR 131.12 and Section 335-6-10-.04 of the Alabama Department of Environmental Management Administrative Code, the following information must be provided, if applicable. 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 question 2 below. If "no", do not complete this section.

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

   If "no" and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete questions A through 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 www.adem.alabama.gov/DeptForms. If "yes", do not complete this section.

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

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

   B. Explain if and to what degree the discharger will be increasing employment as a result of the proposed discharge, either at its existing facility or as the result of the start-up of a related new facility or industry.

   C. Explain if and to what degree the discharge will prevent employment reductions?

   D. Describe any additional state or local taxes that the prospective discharger will be paying.

   E. Describe any public service the discharger will be providing to the community.

   F. Describe the economic or social benefit the discharger will 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 municipal facility depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department's website at www.adem.alabama.gov\programs\water. The required ADEM and EPA forms are summarized in Attachment 1.

SECTION H– ENGINEERING REPORT/BMP PLAN REQUIREMENTS

Any Engineering Report or Best Management Practice (BMP) Plans required to be submitted to ADEM by the applicant must be in accordance with ADEM 335-6-6-.08(i) & (j).

SECTION I– RECEIVING WATERS

Receiving Water(s)	303(d) Segment? (Y / N)	Included in TMDL?* (Y / N)
N/A		

*If a TMDL Compliance Schedule is requested the following should be attached as supporting documentation:
(1) Justification for the proposed 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 reported 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 the requested compliance schedule.

SECTION J – APPLICATION CERTIFICATION

THE INFORMATION CONTAINED IN THIS FORM MUST BE CERTIFIED BY A RESPONSIBLE OFFICIALAS DEFINED IN ADEM ADMINISTRATIVE RULE 335-6-6-.09 "SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS" (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 RESONSIBLE 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."

"I FURTHER CERTIFY UNDER PENALTY OF LAW THAT THE RESULTS OF ANY ANALYSES REPORTED AS LESS THAN DETECTABLE IN THIS APPLICATION OR IN ATTACHMENTS THERETO WERE PERFORMED USING THE EPA APPROVED TEST METHOD HAVING THE LOWEST DETECTION LIMIT READILY ACHIEVABLE FOR THE SUBSTANCE TESTED."

SIGNATURE OF RESPONSIBLE OFFICIAL: Ray Hardin DATE SIGNED: 1/23/17

(TYPE OR PRINT)

NAME OF RESPONSIBLE OFFICIAL: RAY HARDIN

OFFICIAL TITLE OF RESPONSIBLE OFFICIAL: GENERAL MANAGER

MAILING ADDRESS: P.O. BOX 2232, DECATUR, ALABAMA 35609-2232

AREA CODE & PHONE NUMBER: 256-552-1472

SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS

Responsible official is defined as follows:

1. 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
2. In the case of a partnership, by a general partner
3. In the case of a sole proprietorship, by the proprietor, or
4. In the case of a municipal, state, federal, or other public facility, by either a principal executive officer, or a ranking elected official.
5. In the case of a private or semi-public facility, the responsible official is either a principal executive officer or the owner of the corporation or other entity.

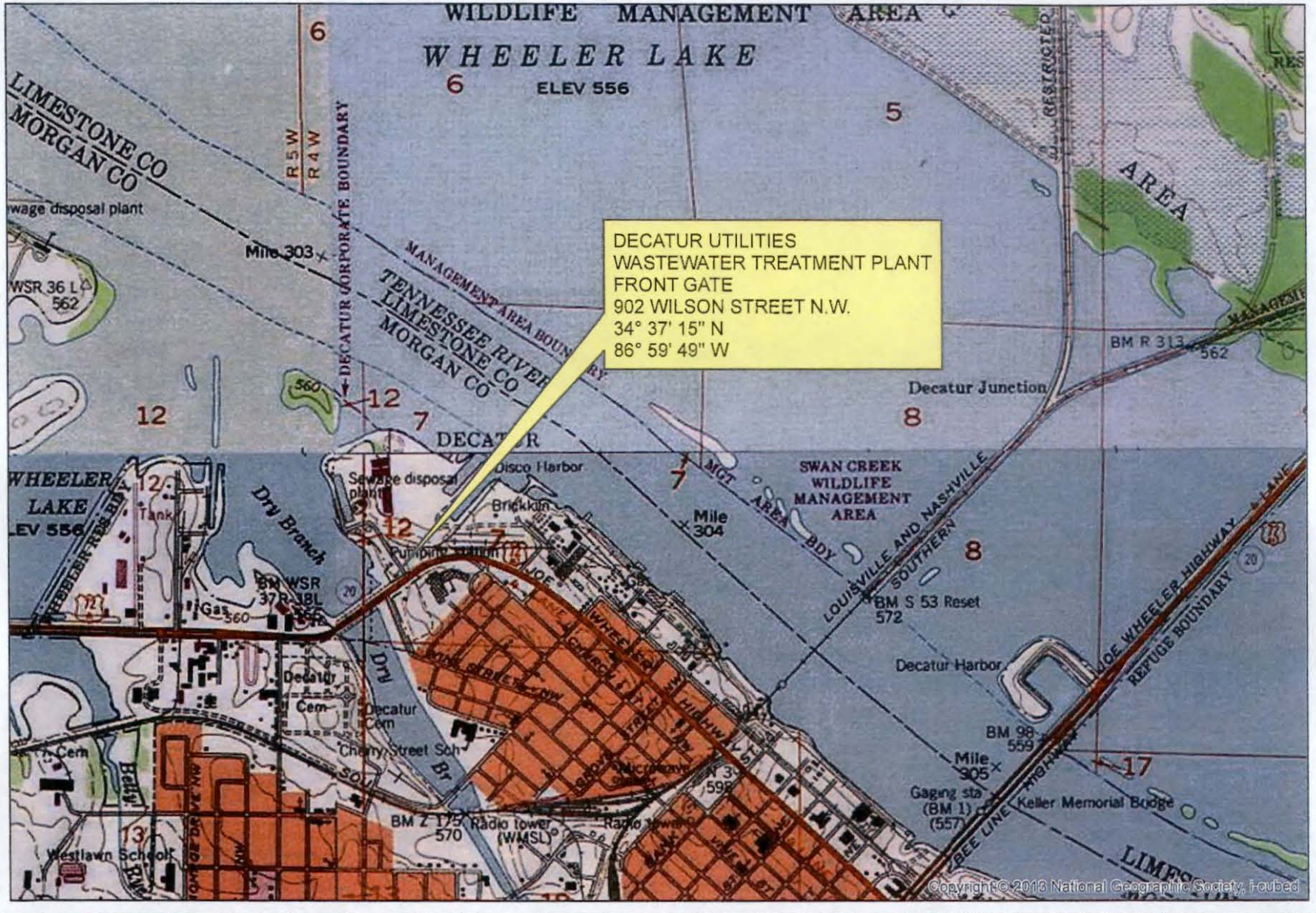
Attachment 1 to Supplementary Information Form

NPDES PROGRAM
PERMIT APPLICATION FORMS
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

TYPE DISCHARGE	ADEM FORMS	EPA FORMS
New or existing once through non-contact cooling water and/or cooling tower blowdown, and/or sanitary wastewater (non-process wastewater only). Note: POTWs and privately owned domestic treatment works should use Form 2A.	Supplemental Information Form 187 (Industrial) or Form 188 (Municipal)	Forms 1 and 2E
Existing discharges of process wastewater	Supplemental Information Form 187 (Industrial) or Form 188 (Municipal)	Forms 1 and 2C
New discharges of process wastewater	Supplemental Information Form 187 (Industrial) or Form 188 (Municipal)	Forms 1 and 2D
New or existing discharges composed entirely of stormwater meeting the EPA definition of stormwater associated with industrial activity	Supplemental Information Form 187 (Industrial) or Form 188 (Municipal)	Forms 1 and 2F
New or existing discharges composed of stormwater meeting the EPA definition of stormwater associated with industrial activity, and any other non-stormwater discharges.	Supplemental Information Form 187 (Industrial) or Form 188 (Municipal)	Forms 1 and 2F and, as appropriate, Forms 2E, 2E, 2C, and/or 2D
New or existing Publicly-Owned Treatment Works (POTWs) and Privately-Owned Treatment Works composed of sanitary wastewater	Supplemental Information Form 187 (Industrial) or Form 188 (Municipal)	Forms 1 and 2A
New or existing land application of process wastewater. Form 2F is required for stormwater runoff from the land application site, if the site is not completely bermed to prevent runoff.	Supplemental Information Form 187 (Industrial)	Forms 1, 2F, and 2C or 2D, as appropriate
New or existing land application of sanitary wastewater. Form 2F is required for stormwater runoff from the land application site, if the site is not completely bermed to prevent runoff.	Supplemental Information Form 187 (Industrial) or Form 188 (Municipal)	Forms 1, 2A, and 2F

Testing requirements: Test procedures for all analyses shall conform to 40 CFR Part 136 or an alternate method specifically approved by the Department. If more than one method of analysis is approved, then the method having the lowest detection level shall be used.

DECATUR WASTEWATER TREATMENT PLANT



0 1,400 2,800 Feet

N

Data From
Decatur Utilities

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
1000000550794

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM **2F** NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
DSN002	34.00	37.00	32.00	86.00	59.00	49.00	TENNESSEE RIVER
DSN003	34.00	37.00	32.80	86.00	59.00	50.30	TENNESSEE RIVER
DSN004	34.00	37.00	32.60	86.00	59.00	57.20	TENNESSEE RIVER
DSN005	34.00	37.00	28.20	87.00	0.00	2.30	TENNESSEE RIVER
DSN006	34.00	37.00	18.00	86.00	59.00	55.80	TENNESSEE RIVER
DSN007	34.00	37.00	18.10	86.00	59.00	54.80	TENNESSEE RIVER
DSN008	34.00	37.00	14.60	86.00	59.00	52.40	TENNESSEE RIVER

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
N/A	N/A		N/A		

RECEIVED
JAN 25 2017
IND / MUN BRANCH

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
	SEE ATTACHMENT 2				

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

NO SIGNIFICANT MATERIALS ARE TREATED, STORED, OR DISPOSED OF ON SITE IN A MANNER TO ALLOW EXPOSURE TO STORMWATER OUTFALLS. STORMWATER FROM AREAS IN THE FACILITY WHICH HAVE THE POTENTIAL TO CONTAMINATE STORMWATER IS COLLECTED AND RE-ROUTED TO THE HEADWORKS OF THE POTW FOR TREATMENT PRIOR TO DISCHARGE.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
	NONE	

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
RAY HARDIN, GENERAL MANAGER	Ray Hardin	1/23/17

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

THE DRAINAGE AREA FOR EACH OUTFALL WAS INSPECTED FOR ANY NON-STORMWATER DISCHARGES DURING TWO DRY PERIODS, JUNE 8, 2016 and NOVEMBER 8, 2016. THERE WERE NO DISCHARGES FROM ANY OF THE STORMWATER OUTFALLS.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

NONE

 Continue on Page 3

Continued from Page 2

EPA ID Number *(copy from Item 1 of Form 1)*
100000050794

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (*list all such pollutants below*) ☑ No (*go to Section IX*)

VIII. Biological Toxicity Testing Data

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 3 years?

☐ Yes (*list all such pollutants below*) ☑ No (*go to Section IX*)

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ No (*go to Section X*)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
ENERSOLV CORPORATION	2220 BELTLINE ROAD SW DECATUR, AL 35601	(256)350-0846	ALL PARAMETERS

X. 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 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.

A. Name & Official Title (*Type Or Print*)	B. Area Code and Phone No.
RAY HARDIN, GENERAL MANAGER	(256) 552-1472
C. Signature: Ray Hardin	D. Date Signed: 1/23/17

EPA ID Number *(copy from Item I of Form 1)*
100000050794

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge Information *(Continued from page 3 of Form 2F)*

Part A - 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.

Pollutant And CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number Of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil & Grease	**<5.0 mg/l**				**1**	***Access Roads, Facilities Associated with a POTW***
Biological Oxygen Demand (BOD5)	**<3.0 mg/l**	**<3.0 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***
Chemical Oxygen Demand (COD)	**17.1 mg/l**	**<10.0 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***
Total Suspended Solids (TSS)	**57.3 mg/l**	**36.0 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***
Total Nitrogen	**<1.50 mg/l**	**<1.50 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***
Total Phosphorus	**<1.0 mg/l**	**<1.0 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***
pH	**7.9 su**				**1**	***Access Roads, Facilities Associated with a POTW***

Part B - List each pollutant that is limited in an effluent guideline which 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 Values *(include units)*		Average Values *(include units)*		Number Of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
E. Coli	**300 col/100 ml**				**1**	***Access Roads, Facilities Associated with a POTW***
Ammonia as Nitrogen	**<0.10 mg/l**	**0.112 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant And CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number Of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Nitrate -Nitrogen	**<0.200 mg/l**	**<0.200 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***
Nitrite-Nitrogen	**<0.060 mg/l**	**<0.060 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***
TKN	**<1.50 mg/l**	**<1.50 mg/l**			**1**	***Access Roads, Facilities Associated with a POTW***

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Total flow from rain event *(gallons or specify units)*
12/27/16	**160 minutes**	**0.46 inches**	**192 hours**	**780 gallons**

7. Provide a description of the method of flow measurement or estimate.

Flow was calculated using the slope and diameter of the discharge pipe.

Decatur Utilities
Decatur, Alabama
Stormwater Outfalls

Discharge Serial Number	Latitude	Longitude	Receiving Water	Area Impervious Surface (ft^2) [1]	Total Area Drained (ft^2)
DSN002	34 37 32.0	86 59 49.0	Tennessee River	167,086	417,716
DSN003	34 37 32.8	86 59 50.3	Tennessee River	19,775	19,775
DSN004	34 37 32.6	86 59 57.2	Tennessee River	6,334	63,341
DSN005	34 37 28.2	87 00 02.3	Tennessee River	28,594	95,313
DSN006	34 37 18.0	86 59 55.8	Tennessee River	8,888	17,775
DSN007	34 37 18.1	86 59 54.8	Tennessee River	208,946	278,594
DSN008	34 37 14.6	86 59 52.4	Tennessee River	17,773	19,748

[1] **Impervious Surface Area is estimated; Total Area Drained is actual measured surface area**

CATEGORIAL SIGNIFICANT INDUSTRIAL USERS

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Alphapet

Mailing Address: 1301 Finley Island Rd., Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

PET (Poly-Ethylene-Terephthalate) resin manufacturing

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): PET (Poly-Ethylene-Terephthalate) resin

Raw material(s): Pure Terephtalic Acid (PTA), Mono Ethylene Glycol (MEG)

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
175,000 gpd (_X_continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,500 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 414-Organic Chemical, Plastics, Synthetic Fibers

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
_X_Yes ___No If yes, describe each episode.
pH violation – August 2014

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Daikin

Mailing Address: P.O. Box 2252, Decatur, AL 35609

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Flouropolymers

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Polymer Resins

Raw material(s): Chloroform, Anhydrous Hydrogen Fluoride

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
N/A gpd (___continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,279 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 414-Organic Chemical, Plastics, Synthetic Fibers

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Hexcel

Mailing Address: P.O. Box 2247, Decatur, AL 35609

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

PAN Fibers

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): PAN Fibers

Raw material(s): Acrylonitrile, Methacrylic Acid

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,520,466 gpd (X continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,857 gpd (___continuous or X intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits X Yes ___No
b. Categorical pretreatment standards X Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 414-Organic Chemical, Plastics, Synthetic Fibers

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes X No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Hyosung

Mailing Address: P.O. Box 788, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Tire Cord Fabric

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Tire Cord Fabric

Raw material(s): Polyester, Nylon, Latex, Carbon Black

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
N/A gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
15,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 428-Rubber Manufacturer

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Ineos Styrolution America LLC

Mailing Address: P.O. Box 5460, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Polystyrene

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Polystyrene

Raw material(s): Styrene Monomer

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
121,500 gpd (X continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
500 gpd (___continuous or X intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits X Yes ___No
b. Categorical pretreatment standards X Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 414-Organic Chemical, Plastics, Synthetic Fibers

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes X No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: ITW Sexton

Mailing Address: 3101 Sexton Road, Decatur, AL 35603

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Steel Cans/Oil Filter Bodies

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Oil filter bodies, Cans

Raw material(s): Cold Rolled Steel, Paint

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
10,700 gpd (X continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
2,500 gpd (___continuous or X intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits X Yes ___No
b. Categorical pretreatment standards X Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 465- Coil Coating, Sub. Can Making

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes X No If yes, describe each episode.
Phosphorus Violation – March 2014

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Matthews Industries

Mailing Address: 23 2nd Street SW, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Metal Finishing

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Sheet Metal

Raw material(s): Steel, Aluminum

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,297 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
2,833 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 433- Metal Finishing

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Saputo Dairy Foods USA, LLC

Mailing Address: 1611 6th Ave SE, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Dairy Products

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Milk Products, Ice Cream Products

Raw material(s): Grade A Raw Milk

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
93,633 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
22,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 405-Dairy Products Sub.A and Sub.G

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Nucor Steel

Mailing Address: 4301 Iverson Blvd., Trinity, AL 35673

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Steel Coil Processing

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Sheet Metal

Raw material(s): Scrap Metal

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
413,00 gpd (X continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,000 gpd (___continuous or X intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits X Yes ___No
b. Categorical pretreatment standards X Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 433- Metal Finishing

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes X No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Polyplex

Mailing Address: 3001 Mallard Fox Dr., Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Manufacturing of PTE

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): PTE

Raw material(s): Pure Terephtalic Acid (PTA), Mono Ethylene Glycol (MEG)

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
35,500 gpd (_X_continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,500 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 414-Organic Chemical, Plastics, Synthetic Fibers

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
_X_Yes ___No If yes, describe each episode.
pH Violation – November 2014, December 2014, August 2015, June 2015

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Toray CFA

Mailing Address: 2030 Highway 20 West, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Carbon Fibers

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Polyacrylonitrile Fiber and Carbon Fiber

Raw material(s): PAN Fibers

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
587,744 gpd (X continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
10,798 gpd (___continuous or X intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits X Yes ___No
b. Categorical pretreatment standards X Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 414-Organic Chemical, Plastics, Synthetic Fibers

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes X No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Toray TFA

Mailing Address: 2032 Highway 20 West, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Fluorocarbon Fibers

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Fluorocarbon Fibers

Raw material(s): PTFE Dispersion, HPC, Sulfuric Acid

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
81,700 gpd (_X_continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
3,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 414-Organic Chemical, Plastics, Synthetic Fibers

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Tru-Line Manufacturing

Mailing Address: 3510 Central Ave SW, Decatur, AL 35603

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Fluid Transfer Lines

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Fluid Transfer Lines

Raw material(s): Steel Tubing

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
15,450 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
8,900 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 433- Metal Finishing

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: United Launch Alliance

Mailing Address: 100 Atlas Avenue, Trinity, AL 35673

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Rocket Bodies

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Space Vehicles

Raw material(s): Aluminum Alloy 2219

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
60,500 gpd (X continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,082 gpd (___continuous or X intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits X Yes ___No
b. Categorical pretreatment standards X Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 433- Metal Finishing

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes X No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Wolverine

Mailing Address: P.O. Box 2202, Decatur, AL 35609-2202

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Copper Tubing

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Copper Tubing

Raw material(s): Copper

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,300 gpd (X continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,700 gpd (___continuous or X intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits X Yes ___No
b. Categorical pretreatment standards X Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 468- Copper Forming

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes X No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Wayne Farms Further Processing

Mailing Address: 112 Plugs Drive, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Cooked Poultry Products

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Packaged Chicken Products

Raw material(s): Chicken

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent:
1,092,000 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent:
50,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards _X_Yes ___No
If subject to categorical pretreatment standards, which category and subcategory?

Part 432-Meat and Poultry Products Sub. L

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

NON-CATEGORICAL SIGNIFICANT INDUSTRIAL USERS

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: A&R Transport

Mailing Address: 2513 Highway 20, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Rinsing of Tankers Containing Polystyrene

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
6,430 gpd (_X_continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
210 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Air Products

Mailing Address: 75 Ipsco St. NW, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Air Separation

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Liquid Nitrogen/Oxygen

Raw material(s): Ambient Air

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
8,200 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Aramark Uniform Services

Mailing Address: P.O. Box 1963, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Industrial Laundry

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Uniforms, Mats, Linens

Raw material(s): Wash Chemicals

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
87,543 gpd (_X_continuous or ____intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,400 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Ardent Mills

Mailing Address: 2050 Market St. NE, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Flour Milling

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Flour

Raw material(s): Wheat

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
N/A gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,600 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Automatic Screw Machine

Mailing Address: P.O. Box 1608, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Metal Machining

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Metal Nuts and Fittings

Raw material(s): Ferrous and Non-Ferrous Metal Bar

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
250 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
2,200 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Big Heart Pet Brands

Mailing Address: 1200 Market Street, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Pet Food

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Dry Pet Food

Raw material(s): Corn, Gluten Meal, Soy, Poultry Meal, Fish Products

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
81,383 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Bunge Corporation

Mailing Address: P.O. Box 2248, Decatur, AL 35609

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Soybean Oil

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Soybean Oil, Meal

Raw material(s): Soybeans

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
215,189 gpd (_X_continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
3,413 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
pH Violation – November 2015

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Bulkmatic

Mailing Address: 1304 Commerce Drive SW, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Rinsing of Tankers Containing Food Grade Products

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
7,195 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
320 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
Solids Discharge causing SSO – Violation - March 2015

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Carpenter Technology

Mailing Address: P.O. Box 219 Tanner, AL 35671

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Iron and Steel Forging

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Alloy

Raw material(s): Alloy

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
8,175 gpd (_X_continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
_X_Yes ___No If yes, describe each episode.
pH Violation – April 2015

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Carry Transit

Mailing Address: 720 State Docks Road, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Rinsing of Tankers Containing Food Grade Products

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
23,530 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
250 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Chemtrade

Mailing Address: 1008 Cedar Lake Rd SE, Decatur, AL 35603

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Chemical Toll Blending, Aluminum Salts

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Aluminum Chlorhydrate

Raw material(s): Aluminum Metal, Aluminum Chloride Solution

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
20,000 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Container Recycling

Mailing Address: 230 Cockrell Ave. SW Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Cleans empty chemical containers

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): Potable Water

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,425 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
575 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
_X_Yes ___No If yes, describe each episode.
TTO Violation - January 2015

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: EFP LLC

Mailing Address: P.O. Box 1844, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Expand Polystyrene Beads

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Formed EPS Beads

Raw material(s): EPS Beads

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
2,457 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,207 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Bakers Corporation (Formerly Fleet Transport)

Mailing Address: 684 McEntire Lane, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Rinsing of Tankers

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,000 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
150 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Gemstone Foods – Holly Street

Mailing Address: 641 Holly St. NE, Decatur, AL35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Hand Portioned Chicken Breast

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Portioned Chicken Breast Meat and Tenders

Raw material(s): Raw Chicken Breast Meat and Tenders

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,000 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
2,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Gemstone Foods – McEntire Lane

Mailing Address: 805 McEntire Lane, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Hand Portioned Chicken Breast

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Portioned Chicken Breast Meat and Tenders

Raw material(s): Raw Chicken Breast Meat and Tenders

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
7,000 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
4,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: General Electric

Mailing Address: P.O. Box 2223, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Fabrication of Carbon/Galvanized Steel

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Refrigerators

Raw material(s): Steel, Plastic, Refrigerant Oil

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,400 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
36,560 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: International Paper

Mailing Address: 151 Ipsco Street NW, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Manufacture of Corrugated Containers

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Corrugated Containers

Raw material(s): Pare, Ink, Wax, Starch

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
30,000 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
3,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
_X_Yes ___No If yes, describe each episode.
Solids discharge causing SSO – Violation – March 2015

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Morgan County Landfill

Mailing Address: 500 Landfill Drive, Trinity, AL 35673

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Solid Waste Disposal

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
5,570 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
400 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Morris Farms Landfill

Mailing Address: 4 Co Rd 418, Hillsboro, AL 35643

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Solid Waste Disposal

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
6,906 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
N/A gpd (___continuous or ___intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: OCI Chemical

Mailing Address: 1455 Red Hat Road NW, Decatur, AL 35603

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Sodium Percarbonate

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Sodium Percarbonate

Raw material(s): Sodium Carbonate, Hydrogen Peroxide

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
20,000 gpd (_X_continuous or ___intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
3,000 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
_X_Yes ___No If yes, describe each episode.
pH violation – April 2015

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Parker Towing (formerly Decatur Transit)

Mailing Address: PO Box 1784, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Rinsing of Barges

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,188 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
247 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Patrick Industries/Sun Adhesives

Mailing Address: 1001 Beltline Hwy, Decatur, AL 35603

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Manufacture water based adhesives

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Water Based Adhesives

Raw material(s): Polyvinyl Acetate Emulsions

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,850 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
180 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Primetal Technologies

Mailing Address: 701 Market St. NW, Decatur, AL 35601

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Repair of steel industry equipment

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): N/A

Raw material(s): N/A

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
1,300 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
400 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Veolia

Mailing Address: P.O. Box 1912, Decatur, AL 35602

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Neutralization of Hydrochloric Acid

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s): Hydrate Lime

Raw material(s): Calcium Fluoride Cake

F.6. Flow Rate.
a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
14,000 gpd (___continuous or _X_intermittent)
b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
120 gpd (___continuous or _X_intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:
a. Local limits _X_Yes ___No
b. Categorical pretreatment standards ___Yes _X_No
If subject to categorical pretreatment standards, which category and subcategory?

N/A

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
___Yes _X_No If yes, describe each episode.
N/A

ORDINANCE NO. 2008-3954

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF DECATUR, IN THE STATE OF ALABAMA, as follows:

Section 1. That existing ordinances of the City of Decatur, Alabama, which appear as Chapter 23, Article III and Chapter 23, Article III-A, including as they appear there in Article III and Article III-A, §§23-56 through 23-135.23, (other than reserved sections), Code of the City of Decatur, Alabama, are hereby repealed and the following is adopted in lieu thereof:

ARTICLE III. WASTEWATER*

***Cross references:** Requirements when building demolished, § 7-11; plumbing code, § 7-71 et seq.; private sewage disposal, § 7-86 et seq.
State law references: Board for operation of sewer system, Code of Ala. 1975, § 11-50-310.

DIVISION I. GENERALLY

Section 23-56. Purpose and Policy.

This "Wastewater Ordinance" establishes requirements applicable to any discharge to the wastewater collection and treatment system owned by the City of Decatur ("Wastewater Collection and Treatment System") and operated by the Municipal Utilities Board of the City of Decatur (the "BOARD"); sets forth uniform requirements for the protection of the health, safety and welfare of the citizens of Decatur and the environment; enables the BOARD 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 BOARD and General Manager of the Municipal Utilities Board of the City of Decatur 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.

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 Decatur. Any person or entity that discharges or contributes wastewater, pollutants, or any materials into the BOARD's 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 BOARD or General Manager issued hereunder, and shall comply with all applicable federal and state law. Except as otherwise provided herein, the General Manager of the BOARD or his designees shall administer, implement, and enforce the provisions of the "Wastewater Ordinance". Any powers granted to or duties imposed upon the General Manager may be delegated by the General Manager to other BOARD 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 Article III-A. Non-domestic Users of the Wastewater Collection and Treatment

System are subject to this Wastewater Ordinance and provisions of Article III-A.

Section 23-57. Objectives.

1. Provide safe, reliable, and effective wastewater collection and treatment services for the citizens of Decatur and such other persons or entities as the BOARD or General Manager authorize 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 BOARD'S 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 BOARD's 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 BOARD's wastewater collection and treatment relating to Industrial Users of the system amongst those Industrial Users.

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

7. Ensure the BOARD'S compliance with its NPDES permit conditions, sludge use and disposal requirements and any other Federal or State laws to which the BOARD's 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 Decatur and the public investment in the sewer collection and treatment system.

Section 23-58. Definitions.

Unless the context specifically indicates otherwise, the following terms and phrases, as used in the "Wastewater Ordinance" shall have the meanings 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 Approval Authority shall be the Alabama Department of Environmental Management (ADEM), the successor to AWIC.

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. **BOARD** - Shall mean the Municipal Utilities Board of the City of Decatur.

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

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

9. **City** - The City of Decatur or City Council of the City of Decatur.

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

11. **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.

12. **Contractual Arrangement** - Shall mean a contract between a User, Discharger or Contributor and the BOARD. A permit issued by the BOARD to a User, Discharger, or Contributor is also referred to as a contractual arrangement.

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

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

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

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

17. **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 BOARD's Wastewater Collection and Treatment System.

18. **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 Article III-A 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 BOARD or General Manager 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.

19. **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.

20. **General Manager** - The person designated by the BOARD to supervise the operation of the publicly owned treatment works and who is charged with certain duties and responsibilities by this article, or his duly authorized representative.

21. **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.

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

23. **Indirect Discharge** - The discbarge 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 BOARD's Wastewater Collection and Treatment System (including holding tank waste discharged into the system).

24. **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 BOARD's wastewater system.

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

26. **National Pretreatment Regulations** – Shall mean the regulations promulgated at 40 CFR, Part 401 through 699. Federal Categorical Pretreatment Standards are included in the National Pretreatment Regulations.

27. **Normal Operations** – Shall mean the operational characteristics as described in any permit or authorization issued by the BOARD or General Manager 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 BOARD or General Manager

28. **Surcharge** – Shall mean an additional service charge assessed to persons or entities discharging

to the BOARD's Wastewater Collection and Treatment System whose waste characteristics exceed levels specified in Article III-A, Non-Domestic Sewer Use Ordinance.

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

30. **Interference or Interfere** – A discharge which, alone or in conjunction with a discharge or discharges from other sources, inhibits or disrupts the BOARD's treatment processes or operations or its sludge processes, use or disposal, or may contribute to a violation of any requirement of the BOARD'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 BOARD 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 BOARD.

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

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

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

34. **"Non-Domestic Sewer Use Ordinance"** – Shall mean the provisions of Article III-A of Chapter 23 of the Decatur Code of Ordinances.

35. **Ordinance** – when used in Article III means "Wastewater Ordinance"; when used in Article III-A, means "Wastewater Ordinance" and "Non-Domestic Sewer Use Ordinance."

36. **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 BOARD's NPDES Permit, including an increase in the magnitude or duration of a violation.

37. **Person or Owner** - Shall mean any individual, partnership, copartnership, 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.

38. **pH** - Shall mean the reciprocal of the log of the weight of hydrogen ions in grams per liter of solution.

39. **Pollutant** – Shall mean any dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical constituent or waste, biological materials, radioactive materials, 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, BOD, COD, toxicity, odor).

40. **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 BOARD'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(c).

41. **Pretreatment Coordinator** - BOARD 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.

42. **Publicly Owned Treatment Works** or **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 BOARD's wastewater collection and treatment system is a POTW and when the term POTW is used it shall refer to the BOARD's POTW, which is a part of the BOARD's Wastewater Collection and Treatment System.

43. **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 BOARD's POTW. Sewers are a part of the BOARD's Wastewater Collection System.

44. **Shall** - is mandatory. **May** is permissive.

45. **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.

46. **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.

47. **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.

48. **Treatment plant** - Any device or system used in collection, storage, treatment, recycling and/or reclamation of wastewater.

49. **User** - Any person who contributes, causes or permits the contribution or discharge of non-domestic wastewater into the BOARD's Wastewater Collection and Treatment System.

50. **Wastewater or Wastes** - Shall mean the used water and water-carried solids or associated physical and chemical conditions of water that flow into the BOARD'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 BOARD'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 BOARD's wastewater collection and treatment system and are not wastewater or waste under this ordinance.

51. **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 BOARD's POTW, and includes the POTW and any facilities and equipment used in the BOARD's operation of the POTW and collection system.

52. **Wastewater Ordinance** – Shall mean the provisions of Articles III and III-A of Chapter 23 of the Decatur Code of Ordinances.

53. **Water Closet** – Shall have the meaning set forth in Section 7-86 of the Code of the City of Decatur.

54. **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.

Section 23-59. Abbreviations.

The following abbreviations shall have the designated meanings

1. **ADEM** Alabama Department of Environmental Management
2. **BOARD** The Municipal Utilities Board of the City of Decatur
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. **MGD** Million gallons per day
10. **mg** Milligrams
11. **mg/l** Milligrams per liter, also known as parts per million
12. **NPDES** National Pollutant Discharge Elimination System
13. **O/G** Oil & Grease
14. **POTW** Publicly Owned Treatment Works
15. **RCRA** Resource Conservation and Recovery Act, 42 U.S.C. § § 6901 et seq.
16. **SIC** Standard Industrial Classification
17. **SID** State Indirect Discharge Permit
18. **SWDA** Solid Waste Disposal Act, 42 U.S.C. 6901, et. seq.

19. **TSS** Total Suspended Solids

20. **TTO** Total Toxic Organics

21. **USC** United States Code

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

DIVISION II. SEWER SYSTEM CONNECTION

Section 23-68. When Sewer System Connection Required.

All persons, entities, and property owners owning dwelling houses or other buildings in the city located near a sewer or in the block, within any sewer district in the City, through which a sewer extends shall make such connections with such sewer as in the judgment of the building director may be necessary for the purpose of disposing of all substances from any such buildings affecting the public health which may be lawful and properly disposed of by means of the sewer unless other plans have been submitted and approved by the building director.
(Code 1956, § 9-92)

Section 23-69. Permit to Connect to Sanitary Sewer.

a. No person, entity, or property owner shall make a connection to a sanitary sewer of the city without first making an application, in writing, to the BOARD, giving a description of the premises to be connected to the City sewer and the location at which the connection is desired to be made and receiving from the wastewater department a written certificate of approval to make such connection insofar as that department is concerned.

b. Where no stub-out exists at or near the property line, a certificate shall not be issued until such time as provision is made satisfactory to the wastewater department to have such additions made as shall be necessary to provide an approved stub-out the cost of which shall be borne by the applicant.

c. The BOARD and General Manager are authorized to establish, pursuant to the Division 4 of this Article, fees, rates, and other charges for connection to and utilization of the BOARD's sewer system, including water and sewer system development charges, fees for service, water meters and mains, collector extension costs, tap fees including additional or alternative service, and fees for services such as road and highway crossings required for sewer connection, and any other fees for stub work, plugging old stub locations, or similar activities. All such fees, rates, and charges shall be borne by the person or entity seeking to make connection to the sanitary sewer. Fees, rates, and other charges pursuant to this Division will be set forth in the Rules and Regulations governing utility service from the BOARD and may be amended from time to time by the BOARD. No connection shall be permitted until such fees, rates, and other charges are paid in full.

(Code 1956, § 9-95; Ord. No. 98-3503, § 1, 12-7-98)

Section 23-70. Refusal of Owner to Make Sewer Connection.

If any person or entity shall fail, neglect or refuse to connect any building with the sewer system or construct other means of sewage disposal and as provided for in this division, for more than ten (10) days after being notified in writing by the board of health or the building director, then the City may advertise for bids for the construction and making of such sewer connection, and may contract therefor, to the lowest responsible bidder and cause such premises to be connected with the sewer system or other means of sewage disposal constructed and shall assess the costs and expenses thereof against the property and premises so affected, such assessment to be made in the same manner as other special assessments are made; provided always, all such construction ordered by the board of health and the building director in accordance with the provisions of this division shall be in full compliance with the requirements hereof.
(Code 1956, § 9-93)

Section 23-71. Compliance with Law.

There shall be no discharge of waste into the sanitary sewer system until all wastewater requirements imposed by law, including the Wastewater Ordinance, shall have been met.
(Code 1956, § 9-95)

Section 23-72. Service subject to Board rules.

All service furnished by the BOARD shall be subject to the rules and regulations from time to time adopted and promulgated by the municipal utilities board.
(Code 1956, § 22-8.2)

[Sections 23-73--23-77 Reserved.]

DIVISION III. ALTERNATIVE CONNECTION PROCEDURE

Section 23-78. Connection Required by Council Resolution--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, the survey in which the same is situated, 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)

Section 23-79. 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 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)

Section 23-80. Same--Hearing of objections.

Upon the day fixed in the resolution authorized by section 23-78 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 power to peremptorily order by resolution the property owner to make such connections within ten (10) days thereafter.
(Code 1956, § 12-28)

Section 23-81. 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 director to install on the premises of the property owner a proper water closet, with necessary water supply line and

connect the same with the sewerage system of the city at the expense of the property owner, the cost 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)

Section 23-82. 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 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)

Section 23-83. Assessment for sewer connections--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 have been 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 from 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 provided by law, for foreclosing street improvement assessment liens.
(Code 1956, § 12-30)

Section 23-84. 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 objection 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)

Section 23-85. 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)

Section 23-86. 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.

Section 23-87. 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 of 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)

DIVISION IV. RATES, FEES, and CHARGES

Section 23-88.

The BOARD and General Manager are authorized to establish rates, using the procedures set forth below, and my establish fees, and other charges for utilization of the BOARD's 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 BOARD's Wastewater Collection and Treatment System.

Section 23-89. 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 BOARD may include in its Rules and Regulations, a fee may be collected by the BOARD, 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 Board.

(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 BOARD or General Manager, 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 whom 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.

(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 his sole expense and subject to the approval of the installation by the water department, a meter to measure that amount 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 other 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 municipal utilities board, 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.

(Code 1956, § 22-8.1; Ord. No. 2180, § 1, 6-28-79; Ord. No. 2269, § 1, 4-20-81; Ord. No. 82-2318, § 1, 9-13-82; Ord. No. 85-2459, § 1, 4-15-85; Ord. No. 93-3147, § 1, 6-3-93; Ord. No. 96-3301, § 1, 3-4-96; Ord. No. 99-3560, § 1, 11-1-99; Ord. No. 03-3759, § 1, 6-2-03)

Section 23-90. 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	$0.15/lb
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	$0.15/lb
TSS	250 mg/l	250-700 mg/l	$0.08/lb	701-3,000 mg/l	$0.16/lb	>3,000 mg/l	$0.25/lb
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	$0.25/lb
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	$0.25/lb

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	$0.05/lb
Chlorine Demand	15 mg/l	>15.0 mg/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 contaminant 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 BOARD is authorized to establish charges and fees for Non-Domestic Sewer Use pursuant to Article III-A that may include:

   (a) fees for reimbursement of costs of setting up and operating the BOARD'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 BOARD 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 BOARD or General Manager. Any such fees shall be designed to defray or help defray the costs of providing the service for which the fee is charged, and may be set forth in a "Non-Domestic Fee Schedule" which the BOARD may include in its Rules and Regulations, and which such Non-Domestic Fee Schedule may be amended from time to time by the BOARD.

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 March 1, 2009.

Section 23-91. 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 General Manager shall have its service or authorization to discharge immediately suspended and is subject to termination, revocation, suspension or other action.

Section 23-92. 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 Decatur under the following procedure. The BOARD 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 shall become effective ninety (90) days following establishment thereof by the BOARD. Following the establishment of any rate, charge, or surcharge by the BOARD, the General Manager shall submit such rate, charge, or surcharge schedule to the City of Decatur. Prior to the effective date of any a rate, charge, or surcharge schedule, the General Manager 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 Decatur 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 Board; or, as an alternative to such publication, the General Manager 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 BOARD. If the City of Decatur takes no action modifying or otherwise rejecting such rate, charge, or surcharge schedule, the same shall take effect on the ninety-first day following its establishment by the BOARD and it shall be set forth in the Rules and Regulations governing utility service from the BOARD. The City of Decatur may, prior to the expiration of the ninetieth day following establishment by the BOARD of any the rate, charge, or surcharge schedule, revise, modify, or take such other action with respect thereto as the City of Decatur deems appropriate. Any prior rate, charge, or surcharge schedule shall be superceded 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 Decatur pursuant to law and shall remain in effect until amended or superceded by the process set forth herein.

DIVISION V. SEWER MAINTENANCE

Section 23-93. 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 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.

3. **Unpolluted Wastewater** - shall mean any wastewater which is substantially free of pollutants and is discharged from rain downspouts and drains, footing drains, storm and surface water drains, cooling water systems, and other such drain systems.

(Ord. No. 93-3119, § 1, 3-1-93)

Section 23-94. Permit requirements for building sewers.

Any building sewer required to make connection to the POTW as stipulated in Article III 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. 93-3119, § 2, 3-1-93)

Section 23-95. 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 user 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 of Morgan 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 any defenses by the property owner which relate to awareness of this section or any other related sections of this chapter or the intention to violate this section.

e. The BOARD or General Manager 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 Decatur Utilities billing statement. Qualified property owners may choose but are not required to participate in such available repayment program offered by Decatur Utilities in order to correct the aforementioned defects.

f. In the event the defects are not corrected by the property owner within sixty (60) 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, may, 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.

[Sections 23-96--23-110 Reserved]

Note: To be Codified in the Code of Decatur, Alabama, Article III.A. Sewer Use Regulations Division I. Generally, and superceding Sections 23-111

ARTICLE III.A. NON-DOMESTIC (INDUSTRIAL, COMMERCIAL, INSTITUTIONAL) USE OF PUBLIC WASTEWATER FACILITIES

DIVISION I. GENERALLY

[Note: to supercede Sections 23-111 through 23-116]

Section 23-111. 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 Decatur. 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 Decatur and operated by the Municipal Utilities Board of the City of Decatur (the BOARD); enables the BOARD to ensure compliance with all applicable State and Federal laws required by the Clean Water Act of 1977 and the General Pretreatment Regulations (40 CFR, 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 BOARD and General Manager to regulate persons or owners who are direct and indirect contributors of Non-Domestic Wastewater to the BOARD'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 Decatur who discharge or contribute to the BOARD's wastewater collection and treatment system. Any User that discharges wastewater into the BOARD'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 General Manager of the BOARD 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 General Manager may be delegated by the General Manager to other BOARD 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.

Section 23-112. Objectives.

1. The Objectives of Article III, Section 23-57 are incorporated by reference.

2. To provide wastewater collection and treatment services to many industrial users within the City of Decatur 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 fund 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.

[Note: Sec. 23-113--23-120 Reserved]

DIVISION II - DISCHARGES

Section 23-121. General Discharge Prohibitions.

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 BOARD's wastewater collection and/or treatment facilities. These general prohibitions apply to all such Users of the BOARD's wastewater facilities whether or not the User is subject to Categorical Pretreatment Standards or any other National, State, or local Pretreatment Standards or Requirements.

2. A User may not discharge to the BOARD'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 BOARD's wastewater facilities or to the operation of the BOARD'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, 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 BOARD's wastewater treatment facilities or receiving waters, or to exceed the limitation 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 General Manager or BOARD.

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 BOARD's wastewater treatment facilities' effluent or any other product of the BOARD'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 BOARD's wastewater treatment facilities cause the BOARD'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 exceedence of any effluent limitation, exceedence or excursion of any water quality criteria or standard, or non-compliance with any condition set forth in the BOARD'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 BOARD'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 General Manager.

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 General Manager.

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

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 BOARD'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 BOARD's wastewater system.

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

p. Any wastewater having a temperature which will inhibit biological activity in the BOARD'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).

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 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 BOARD or General Manager. Normal operation is defined as the operational characteristics as described in any permit or authorization issued by the BOARD or General Manager, 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 BOARD or General Manager.

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

- Advise the User(s) of the impact of the contribution on the BOARD's wastewater treatment facilities
- Develop effluent limitation(s) for such User to correct the interference with the BOARD's wastewater treatment facilities

Section 23-122. Federal Pretreatment Regulations.

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 BOARD and General Manager to establish more stringent limits for any User, or reject wastewater from any User, as otherwise provided in this Ordinance.

Section 23-123. Modification of Federal Pretreatment Regulations.

1. Where the BOARD's wastewater treatment system achieves consistent removal of pollutants limited by Federal Pretreatment Standards, the BOARD 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 BOARD 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 BOARD or General Manager may establish local limits in accordance with 40 C.F.R., Part 403.

Section 23-124. 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 General Manager. 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 General Manager for review upon request.

Grease, oil, and sand interceptors shall be provided when, in the opinion of the General Manager, 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 at its expense.

Section 23-125. 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 Municipal Utilities Board of the City of Decatur:

1. Any liquid or vapor in such quantities that will inhibit biological activity in the BOARD'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 General Manager. 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 General Manager; (2) agreement to reimburse the BOARD for any and all additional costs of treatment incurred by the BOARD for treating such wastewaters; and (3) upon the establishment of limitations and conditions by the General Manager, including but not limited to flow, rate, concentration, timing, and duration of discharge.

3. Any gasoline, benzene, napbtha, fuel oil, or other flammable or explosive liquid, solid or gas.

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

5. Any garbage that has not been properly shredded.

6. Any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, 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.

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

8. Any wastewater or wastes containing a toxic or poisonous substance(s) or any other materials in sufficient quantity to injure or interfere with any sewage treatment process, or constitute a hazard to humans or animals, or create any hazard in the receiving waters of the sewage treatment plant, and without proper pretreatment and written approval of the General Manager.

9. 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 General Manager. 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; (2) agreement to reimburse the BOARD for any and all additional costs of treatment incurred by the BOARD for treating such wastewaters; and (3) upon the establishment of limitations and conditions by the General Manager, including but not limited to flow, rate, concentration, timing, and duration of discharge.

10. 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.

11. Any wastewater or wastes containing BOD in concentration greater than 250 mg/l except as specifically authorized by the General Manager 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 Division III; (2) agreement to reimburse the BOARD for any and all additional costs of treatment incurred by the BOARD for treating such wastewaters; and (3) upon the establishment of limitations and conditions by the General Manager, including but not limited to flow, rate, concentration, timing, and duration of discharge. Any authorization allowing a User to discharge BOD in concentrations greater than 250 mg/l shall include a maximum BOD 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 BOARD's wastewater treatment system.

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

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

14. 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 BOARD's wastewater treatment plant, or cause or contribute to interference, pass through, or upset. Quantities of such substances will be determined by the General Manager on a case by case basis.

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

16. 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.

17. 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 BOARD or General Manager.

18. All pollutants listed under Section 23-121 - General Discharge Prohibitions are included in their entirety as part of this section.

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

20. 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.

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

22. Any trucked or hauled pollutants, except at discharge points designated by the BOARD or General Manager.

23. 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

The limits fixed herein may be used as a guide in design and plant control, but may be altered by the General Manager as necessary to meet the purposes set forth in Division I, 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 General Manager may also establish limits for other pollutants as necessary to meet the purposes set forth in Division I, 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.

Section 23-126. 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.

Section 23-127. Board's Right of Revision.

The BOARD 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 23-112 of the Non-Domestic Sewer Use Ordinance.

Section 23-128. 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 BOARD or General Manager, this Non-Domestic Sewer Use Ordinance, or in any other pollutant-specific limitation developed by the BOARD or State.

Section 23-129. 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 BOARD'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 BOARD for review, and shall be approved by the BOARD 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 BOARD of the incident. The notification shall include location of discharge, type of waste, concentration and volume, and corrective actions.

2. Written Notice - Within five (5) days following an accidental discharge; the User shall submit to the General Manager 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 notification shall not relieve the User of any expense, loss, damage, or other liability which may be incurred as a result of damage to the BOARD'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.

Section 23-130. 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 BOARD'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 BOARD 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 General Manager 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 BOARD or General Manager.

(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 BOARD; and which of these activities will be conducted jointly by the governmental entity and the BOARD;

(e) A requirement for the contributing municipality to provide the BOARD 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 23-111;

(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 BOARD 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 BOARD 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 IV.

Section 23-131. 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 23-125, 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.

(b) All Users whose wastewater stream is associated with unusually large quantities of 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 Code of Decatur, Alabama, Article IV, Code Sections 7-71 to 7-120.

(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 Decatur Building Department and all plumbing codes established in Article IV of this Code of Decatur, Alabama, §§ 7-71 to 7-120 and shall have a capacity of at least 15 gallons per seat, except that no grease trap shall be smaller than 1500 gallons nor larger than 3500 gallons.

(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) hour flow rate.

(c) All sand and oil/grease interceptors shall be sized, located and constructed in accordance with the provisions of the duly adopted Code of Decatur, Alabama, Article IV, Code Sections 7-71 to 7-120 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 BOARD. 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.

Section 23-133. 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 BOARD in addition to the requirements of this Non-Domestic Sewer Use Ordinance. The BOARD and General Manager are authorized to change and/or modify requirements pertaining to septic tank pump truck discharges as deemed necessary.

Section 23-134. Development of Specific, Local, or Other Limits.

The BOARD and General Manager are authorized to develop and implement such specific, local, or other limits as are necessary to protect the BOARD's wastewater collection and treatment system or as provided in the Federal Pretreatment Regulations.

Section 23-135 Special Charges, Contracts, and Bonds.

The BOARD acting through its General Manager is hereby authorized to enter into contracts for Users which represent an extraordinary risk to the BOARD's wastewater collection and treatment system or involve additional treatment costs. Such contracts shall take into account the following considerations:

1. All charges for collection, receiving, transporting and treating industrial waste and industrial wastewaters will be established by the General Manager. The amount charged will include all expenses incurred by the BOARD in handling and treating such waste and will include the costs of treatment.

2. The General Manager may prohibit any proposed discharge, or terminate, revoke, or suspend sewer service to any User that discharges wastewater which exceeds the Base Allowance Concentration as set forth below where such user has not entered into an appropriate contract with the BOARD or established sufficient bond as set forth in this Section.

The Base Allowance Concentrations shall be established as follows:

Parameter	Base Allowance Concentration	Maximum Allowable Concentration
pH	5.0 – 9.0	10.5
BOD 5	250 mg/l	2000 mg/l[1]
COD	500 mg/l	[1]
TSS	250 mg/l	
Oil & Grease	100 mg/l	
TKN, as N	60 mg/l	420 mg/l
Ammonia, as N	50 mg/l	400 mg/l
Phosphorus, Total	20 mg/l	
Sulfates	250 mg/l	5,000 mg/l
Chlorides	1000 mg/l	20,000 mg/l
Chlorine Demand	15.0 mg/l	200 mg/l
Total Toxic Organics	5 mg/l	5 mg/l

[1] No User shall discharge BOD or COD in amounts which alone or in conjunction with other discharges exceeds the design capacity of the BOARD's wastewater treatment system.

3. The BOARD and General Manager are authorized to establish a "Non-Domestic Use Fee Schedule" which shall be submitted to the City of Decatur for review and approval pursuant to Division III. The BOARD and General Manager shall, from time to time and as appropriate to

reflect any changes in the costs of administering the wastewater collection and treatment program, revise such schedule.

4. All wastes or wastewaters discharged into the system which exceed the Base Allowance Concentrations above shall pay additional charges at the rate provided in the "Non-Domestic Sewer Use Fee Schedule" or such other fee as established pursuant to Division III. The BOARD will consider any discharges that exceed the maximum allowable limits above as significant non-compliance subject to enforcement. Where Categorical Pretreatment standards, permit limits, or provisions of Federal or State law provide for limitations below the concentrations above for specific Users, Dischargers, Contributors or categories, the lower limitations or concentrations will apply and where appropriate be incorporated into a permit, contract, or authorization issued to the User.

5 Where the General Manager determines that a contract is required pursuant to Section 23-135, such contract shall become a part of the authorization of the discharge along with any permit or other authorization. Such contract shall contain terms and conditions as appropriate to meet the purposes set forth in Section I, including but not limited to wastewater quality, quantity, flow rate, and timing, and provide for the reimbursement of fees and other costs as identified by this Section.

6. Where a User discharges or proposes to discharge wastewater or waste containing any one or combinations of materials prohibited by Division II or above limits established in Division II, the General Manager may determine that a contract is required to authorize the discharge. Such contract shall contain terms and conditions as appropriate to meet the purposes set forth in Section 23-111, including but not limited to wastewater quality, quantity, flow rate, and timing, and provide for the reimbursement of fees and other costs as identified by this Section.

7. All industrial wastes or industrial wastewaters discharged into the system under contract agreement with the BOARD where waste parameters do not exceed the Base Allowance Concentrations shall be handled by the BOARD for the rates adopted and published by the City of Decatur.

8. The BOARD is hereby authorized to enter into special contracts with industrial customers for the collection, treatment and disposal of industrial or sanitary sewage or waste and to enter into contracts for the construction and use of special treatment plants under the terms and conditions for the use thereof, and the provisions of this section may be altered, changed, amended or extended under the terms and conditions of such contracts.

9. Upon request by the General Manager, any User discharging or proposing to discharge wastewater or waste to the BOARD's wastewater collection and treatment system exceeding the Base Allowance Concentration for any parameter shall provide sufficient financial information so as to demonstrate financial assurance of the fiscal resources demonstrating ability to pay any fees or charges established by this Non-Domestic Sewer Use Ordinance. If no financial information is submitted, the General Manager shall suspend, revoke or terminate sewer service, or shall require a bond as outlined below. Based upon financial information submitted, the General Manager may require a bond for the purpose of ensuring available funds to reimburse the BOARD for the charges and fees set forth in this Non-Domestic Sewer Use Ordinance.

10. If a bond is required pursuant to the foregoing subsection 9, the User shall furnish to the City Clerk a performance bond or security bond executed by a surety licensed to do business in the state in an amount totaling at least twenty-five thousand dollars ($25,000.00), or such other sum

as may be specified by the General Manager. The purpose of the performance bond is to ensure performance of any requirements of this Non-Domestic Sewer Use Ordinance regarding fees, charges, or other reimbursement to the BOARD for costs of treating the User's wastewater or waste discharged to the BOARD's wastewater collection and treatment system.

a. The bond must be established by the User to provide that should the User not fulfill any obligation for charges, fees or other reimbursement to the BOARD imposed by this Non-Domestic Sewer Use Ordinance then the surety will make whole any monetary losses or damages incurred by the BOARD, up to the monetary limits of the bond or other security.
b. If the City draws on a performance bond or cash deposit as a result of User's failure to timely discharge its obligations, then the User shall be required to replenish the performance bond or security to the level required within thirty (30) days of the draw down.
c. The performance bond or security bond shall be in force at all times, unless relief is granted or a reduction schedule is detailed in a separate agreement executed between the User and the BOARD.
d. In lieu of a performance bond or security bond, the BOARD may accept alternative forms of security, including a written guarantee of the User pledging the full faith and credit of the User or its ultimate parent, if applicable.

Section 23-135.1. Monitoring and Fee Calculation.

1. All industrial waste, before being discharged into the sewer system of the BOARD, shall be either metered or, where no meter has been installed or is available, volume shall be determined based upon incoming water service to the user's facility. Where a meter is required by the BOARD or General Manager, a meter shall be installed and cost of the meter shall be borne by the User. Where a meter is required by the BOARD or General Manager, no wastewater shall be discharged until so metered. Where a meter is not required, discharge of wastewater constitutes the user's acceptance of incoming water service volume for the basis of billing, monitoring, and fee calculation. Where required by the BOARD or General Manager, appropriate devices or access areas shall be installed and maintained for the purpose of sampling such waste and the BOARD shall have free and continued access over the property of the User for the purpose of sampling the waste.

2. The BOARD may take such samples, data, or information regarding a discharge at any time or any place as determined by the BOARD or General Manager.

3. Fees, charges, or other assessments will be based upon the provisions of this Non-Domestic Sewer Use Ordinance and the General Manager's determination regarding data or other information regarding the discharge, including quality, flow rate and volume.

Section 23.135.2 Reservation of Authority to Terminate, Revoke, or Suspend.

Notwithstanding any other provision of this Non-Domestic Sewer Use Ordinance, the BOARD and General Manager are hereby granted the authority to terminate, revoke, or suspend sewer service upon twenty-four hours notice for any discharge failing to comply with this Non-Domestic Sewer Use Ordinance or an authorization or permit issued hereunder; non-compliance with Federal, State or local law; exceedence of any limitation established in this Non-Domestic Sewer Use Ordinance or an authorization or permit issued hereunder; failure to comply with a condition established by or pursuant to this Non-Domestic Sewer Use Ordinance or an authorization or permit issued hereunder, or a condition of a contract as provided in this Section; or upon a determination by the BOARD or General Manager that the wastewater system lacks adequate capacity or treatment to handle the discharge, provided, however, in situations in which there is an imminent and substantial threat to the BOARD's wastewater collection and treatment system, human health, safety, property, or the environment, the BOARD and General Manager are granted the authority to terminate, revoke, or suspend sewer service and take such other

lawful action without providing twenty-four hours notice. Such termination, revocation, or suspension shall not prejudice any claim of the BOARD for any sums due hereunder or pursuant to a contract. Notice of such election shall be given by certified mail.

[Reserved Sections 23-135.3--23-135.10]

DIVISION III. PRETREATMENT PROCEDURES (PERMITTING, COMPLIANCE TRACKING, AND ENFORCEMENT)

Section 23-135.11. General.

It shall be unlawful for any User, Discharger or Contributor subject to this Non-Domestic Sewer Use Ordinance to discharge to the BOARD's wastewater collection or treatment system without a wastewater discharge permit, authorization, and/or contract as provided herein, except as authorized by the city in accordance with the provisions of this article.

Section 23-135.12. Pretreatment and User Program.

The BOARD's pretreatment program consists of four major elements: the identification and categorization of dischargers into User groupings, below, and determination of pretreatment requirements; the issuance of permits or other authorization for discharge, including contracts as specified in this Non-Domestic Sewer Use Ordinance; the tracking of dischargers to ensure compliance; and the enforcement of this Non-Domestic Sewer Use Ordinance. The purpose of this Division III is to describe the procedures for meeting the requirements of the four areas listed above. The intent of these procedures is to establish the administrative mechanism to allow the efficient and effective implementation of the BOARD's "Non-Domestic Sewer Use Ordinance" to meet the purposes set forth in Section 23-111.

Section 23-135.13. Identification and Categorization of Users and Determinations of Requirements.

1. **Identification of Users and Dischargers**

All dischargers of non-domestic waste are subject to this Non-Domestic Sewer Use Ordinance and must be reviewed to evaluate applicability of pertinent requirements.

a. **Existing Users, Dischargers, or Contributors** - The primary tool for identifying existing dischargers who may be subject to the BOARD's pretreatment requirements is a preliminary screening questionnaire (Industrial Wastewater Survey) and accompanying letter of transmittal. All existing dischargers will be required to respond to the Industrial Wastewater Survey and provide the information specified. The Industrial Wastewater Survey questionnaire and letter will be sent to any known or suspected discharger for which the BOARD and General Manager do not have sufficient information on file to implement the provisions of this Non-Domestic Sewer Use Ordinance. The Industrial Wastewater Survey differs for each category of discharger set forth below. The function of the questionnaire is to obtain sufficient information to determine what further action will be required to categorize the discharger and establish appropriate authorization pursuant to the provisions of this Non-Domestic Sewer Use Ordinance.

Should there be no response from the recipient to the questionnaire, a second questionnaire will be sent with a letter of transmittal detailing the eventual consequence of non-response. Should the second questionnaire elicit no response, the name of the discharger will be referred for follow-up under enforcement procedures.

b. **New Users, Dischargers, or Contributors** - New dischargers making application to discharge to the wastewater collection and treatment system of the BOARD shall complete the Industrial Wastewater Survey and permit application. The function of the questionnaire is to obtain sufficient information for the BOARD to determine appropriate authorization pursuant to the provisions of this Non-Domestic Sewer Use Ordinance.

c. The Industrial Wastewater Survey may include any information as provided in Ala. Admin. Code r. 335-6-5-.13, information characterizing such waste or wastewaters that is available to or has been provided to the User or proposed User, and any such other information as is necessary to develop the appropriate permit or other authorization and necessary conditions and limitations at the discretion of the General Manager. Where any User or proposed User fails to provide complete, accurate and truthful information to the General Manager, BOARD, or its representatives or agents, sewer service shall be denied, and/or any permit, contract or other authorization for that User shall be terminated, suspended, or revoked.

2. **Categorization**

Upon receipt of the required information, each User will be placed into one of the following categories for program management. Categorization will be made in as fair and equitable manner as possible. General guidelines for identifying category placement are given below.

Category 1 - Those Users which have no discharge other than normal sanitary wastewater, or whose non-sanitary discharge has no significant effect on the BOARD's wastewater collection and treatment system, shall be placed in this category. The businesses so designated will be maintained in the BOARD's inventory in case a change in status is required in the future. For those businesses designated Category 1, no permit, authorization, or contractual arrangement between the BOARD and User will be required, except by designation by the General Manager as provided below.

Category 2I - Users with wastewater discharges that do not fall under State or Federal Industrial pretreatment guidelines or the provisions of 40 C.F.R. Part 401 et seq.; and therefore, are not required to obtain a permit from said agencies. However, businesses, with discharges that contain some constituent of concern to the BOARD, or whose discharge may have the potential to pass through or interfere with the operation and maintenance of the BOARD's wastewater collection and treatment system will be subject to control by the BOARD and General Manager. Following receipt of complete information as required by this Non-Domestic Sewer Use Ordinance, the General Manager will make a determination regarding the issuance of a permit or other authorization delineating specific requirements for the discharge. Where appropriate, a permit or other authorization will be issued by the BOARD through the General Manager for Users designated Category 2I. In addition, the User will be subject to the BOARD's compliance tracking program.

Category 2FS – Users that prepare and/or serve food commercially and are not required to obtain a State Indirect Discharge (SID) permit are placed in Category 2FS. A business so categorized will be subject to the BOARD's compliance tracking program and monitored for oil/grease and any other constituents that, in the General Manager's judgment, may pass through or interfere with the operation and maintenance of the BOARD's wastewater collection and treatment system. Following receipt of complete information as required by this Non-Domestic Sewer Use Ordinance, the General Manager will make a determination regarding the issuance of a permit or other authorization delineating specific requirements for the User. Where appropriate, a permit or other authorization will be issued by the BOARD through the General Manager for dischargers designated Category 2FS.

Category 3 – Users that are subject to State and Federal Industrial Pretreatment rules and regulations and are required to obtain a SID permit will be placed in this category. Generally, in accordance with state requirements, a business discharging a wastewater with one or more of the following characteristics will be placed in Category 3:

a. the discharge of more than 25,000 GPD of process wastewater;

b. the discharge in significant quantities of one or more of the EPA designated categories of wastes or wastewaters set forth in the Categorical Pretreatment Standards;

c. the discharge in significant quantities of a prohibited or potentially prohibited waste or wastewater.

Users in this category must obtain permit authorization under Division III, Section 23-135.14. of this Non-Domestic Sewer Use Ordinance and comply with this Non-Domestic Sewer Use Ordinance, any Federal, State or local requirements including permits issued pursuant to those authorities, and must comply with all requirements of 40 C.F.R. Part 401 et seq. Users in this category will be subject to the BOARD's compliance tracking program. Following receipt of complete information as required by this Non-Domestic Sewer Use Ordinance, the General Manager will make a determination regarding the issuance of a permit or other authorization delineating specific requirements for each discharger in this category. Where appropriate, a permit or other authorization will be issued by the BOARD through the General Manager for Users designated Category 3. Where necessary to achieve the purposes of this Non-Domestic Sewer Use Ordinance, Category 3 Users may be required to enter into a contract for discharge.

Category 3A – Users with high strength wastewater, or that treat or recover hazardous or non-hazardous industrial metal-bearing waste, oily waste, and organic-bearing waste from off-site, or any User with high strength wastewater.

a. EPA has determined that Users that treat or recover hazardous or non-hazardous industrial metal-bearing waste, oily waste, and organic-bearing waste from off-site discharge wastewater which may contain very high pollutant concentrations and are unusually difficult to treat and should be recognized as a separate category. EPA has established the combined waste treatment (CWT) point source category for such Users and determined that few facilities in the CWT industry achieve optimum pollutant removals.

b. The BOARD has determined that the wastewater collection and treatment system may not be able to accommodate all Users discharging high strength wastewater or CWT wastewater or all volumes of such discharges.

c. Authorization of discharges for this Category requires additional analysis and may require additional conditions to ensure that such Users do not over utilize or otherwise adversely affect the BOARD's collection and treatment system capacity. Category 3A Users are required to provide information regarding waste streams, wastewater quality, wastewater quantity, source of wastewater, treatment facilities and removal and treatment efficiencies, and other information necessary to properly assess the potential discharge and affect on the BOARD's wastewater collection and treatment system and establish appropriate conditions or limitations for a permit or other authorization. Any User which meets the definition of CWT at 40 C.F.R. Part 437, treats or recovers any hazardous or non-hazardous industrial metal-bearing waste, oily waste, and organic-bearing waste from off-site, or any User that discharges or proposes to discharge high strength wastewater is subject to the requirements for Category 3 and 3A.

d. High strength wastewater is defined as:

Parameter	**Concentration or Load Constituting High Strength Wastewater[2]**
pH	Greater than 9.0
BOD_5	Greater than 1000 mg/l or 4,000 lb/day
COD	Greater than 1,000 mg/l or 8,000 lb/day
TSS	Greater than 3,000 mg/l

Oil & Grease	Greater than 100 mg/l
TKN	Greater than 60 mg/l
Ammonia	Greater than 200 mg/l
Phosphorus	Greater than 20 mg/l
Sulfates	Greater than 800 mg/l
Chlorides	Greater than 1,000 mg/l
Chlorine Demand	Greater than 15 mg/l
Molybdenum	Greater than 1 mg/l
Total Toxic Organics	Greater than 5 mg/l

[2] Daily maximum values.

Any User with at least one discharge exceeding one or more of the concentrations set forth above, or proposing to discharge wastewater exceeding one or more of the concentrations set forth above, is deemed a User with high strength wastewater and subject to Category 3 and 3A.

e. Following receipt of complete information as required by this Non-Domestic Sewer Use Ordinance, the General Manager will make a determination regarding the issuance of a permit or other authorization delineating specific requirements for each User in this category. Where appropriate, a permit or other authorization will be issued by the BOARD through the General Manager for Users designated Category 3 and 3A.

f. The issuance of a permit, authorization and/or contract to Users designated Category 3A is at the sole discretion of the General Manager. A permit, authorization, and/or contract issued to a Category 3A user is revocable at any time for cause. Cause includes but is not limited to non-compliance, lack of plant capacity existing or contemplated in the future, failure to remit surcharges or fees, or such other cause as is determined by the General Manager.

Category 4 - All other discharges. Users who are determined to not meet the criteria of any of the other categories are deemed Category 4. Following receipt of complete information as required by this Non-Domestic Sewer Use Ordinance, the General Manager will make a determination regarding the issuance of a permit or other authorization delineating specific requirements for each User in this category. Where appropriate, a permit will be issued by the BOARD through the General Manager for Users designated Category 4.

Designation by the General Manager: The General Manager may determine on a case-by-case that any User requires permit or other authorization pursuant to this Non-Domestic Sewer Use Ordinance based upon the quantity, quality, rate, or characteristics of an existing or proposed discharge to the BOARD's wastewater collection and treatment system. Upon the General Manager's designation, such User will be required to apply for and obtain permit authorization to discharge. Failure to make application and obtain authorization may result in suspension, termination, or revocation of sewer service.

Section 23.135.14. Permits, Authorizations and Contracts.

The basis for regulating discharges from Category 3, 3A, and where necessary and appropriate Category 2I, 2FS and 4 to the BOARD's wastewater collection and treatment system will be through permits, authorization letters, or contracts between the User and the BOARD. SID permits will be issued and enforced by ADEM but are not directly controlled by the BOARD, however, the General Manager may incorporate by reference SID permits or their limits or conditions into a permit, authorization, or contract. The General Manager may establish Local Limits which shall be incorporated into SID permits for Users in accordance with the procedures established by ADEM and EPA pursuant to the Federal Pretreatment Regulations.

Where the BOARD or General Manager determines that a contract is necessary or appropriate to meet the

purposes of this Non-Domestic Sewer Use Ordinance, the BOARD will execute contracts with Users. These contracts will specifically identify all pretreatment requirements to be enforced by the BOARD that the User must meet and will provide the BOARD and General Manager with authority to require the User to comply with all provisions of this Non-Domestic Sewer Use Ordinance including all federal, state and other provisions incorporated by reference. Users may be subject to other State and Federal or local pretreatment or other requirements not included in the BOARD's contract.

Should a User be required to construct a pretreatment facility to meet the purposes of this Non-Domestic Sewer Use Ordinance, such a requirement and a schedule for completion of such facility will be included as an enforceable portion of the User's permit, authorization, or contract. Failure to meet such requirement and schedule is grounds for termination of a contract, injunction, damages, or such other remedies as provided by law, and, where it may constitute a violation of this Non-Domestic Sewer Use Ordinance, enforcement, injunction, or other relief.

1. **Application**

a. Application Information. Users required to obtain authorization for a discharge to the BOARD's wastewater collection and treatment system shall complete and file with the BOARD all appropriate information. Proposed new Users must file an application in the form prescribed by the BOARD, an Industrial Wastewater Survey, and such other information as is required by the General Manager. Proposed new Users shall apply at least 90 days prior to connecting to or contributing to the BOARD's wastewater collection and treatment facilities. In support of the application, the User shall submit, in units and terms appropriate for evaluation, all information supplied to the State relating to the wastewater or waste, as well as all information characterizing such waste or wastewaters that is available to or has been provided to the User or proposed User. In support of the application, the User shall submit, in units and terms appropriate for evaluation, the following information:

(1) Name, address, and location.

(2) NAIC and SIC number according to the North American Industry Classification System and Standard Industrial Classification Manual, Bureau of Budget, 1972, as amended.

(3) Except as otherwise approved by the General Manager, information and data regarding all wastewater constituents and their range of concentration in wastewater, and other characteristics of wastewater including but not limited to those in Division II of this Non-Domestic Sewer Use Ordinance. All wastewater constituents and characteristics reported shall be the result of representative sampling and include analytical results as determined by a certified analytical laboratory, acceptable to the city and approval authority. Sampling and analysis shall be performed in accordance with procedures and methods established by the EPA pursuant to Section 304(g) of the act and contained in 40 CFR, Part 136, as amended.

(4) Time and duration of wastewater contribution.

(5) Average daily and peak wastewater flow rates, including any daily, monthly, or seasonal variations.

(6) Details locating all sewers, sewer connections, and appurtenances by size, location and elevation, including domestic sewers if separate from industrial sewers.

(7) Description of plant facilities and processes including treatment on the premises including all materials which are or could be discharged; if the User proposes to discharge wastewater from other sources, a description of plant facilities, processes and treatment.

(8) The nature and concentration range of any known pollutants in the discharge which are limited by city, state, or Federal Pretreatment Regulations, and a statement regarding whether or not the Categorical Pretreatment Standards are being met on a consistent basis and if not, whether additional operation and maintenance and/or additional pretreatment is required for the User to meet applicable pretreatment standards.

(9) If additional pretreatment and/or operation and maintenance will be required to meet the pretreatment standards, the shortest schedule by which the User will provide such additional pretreatment. The completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standard. The following conditions shall apply to this schedule:

a. The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment facilities required for the User to meet the applicable pretreatment standards.

b. The User shall submit annual progress reports to the city including, as a minimum whether or not the User has complied with his proposed schedule; and, if not, the date which it expects to return to the proposed schedule and reasons for delay.

(10) Each product produced by type, amount, process or processes and rate of productions.

(11) Type and amount of raw materials processed (average and maximum per day).

(12) Number and type of employees, and hours of operation of plant, and proposed or actual hours of operation of pretreatment system.

(13) Any other information as may be deemed by the city to be necessary to evaluate the permit application.

The City and approval authority will evaluate the data furnished by the User and may require additional information. After evaluation and acceptance of the data furnished by the User, a wastewater discharge permit, authorization, or contract may be issued or entered into subject to terms and conditions provided in this Non-Domestic Sewer Use Ordinance.

The Board and General Manager may, upon request by the User or Proposed User, waive any of the application requirements set forth above where adequate existing information is available to the General Manager.

b. Application Fees. Users required to obtain a wastewater discharge permit, authorization or contract shall submit with an application a fee of fifty dollars ($50.00). This fee is due and payable at the time of initial application and also at the time of permit, authorization, or contract renewal.

c. Existing Users shall submit an Industrial Wastewater Survey in application for a wastewater discharge permit within thirty (30) days after the effective date of this article, as provided in Section 23-135.13. Proposed new Users shall submit a permit application at least ninety (90) days prior to connecting to or contributing to the POTW.

d. Users are prohibited from increasing the volume, concentration, or loading of its discharge from Normal Operations. Users wishing to increase flow, volume, concentration, loading, or change from Normal Operations shall follow the procedures for New Users and receive a modified permit, authorization, or contract as appropriate for the change in discharge.

e. All information required to be submitted pursuant to this subsection shall be accompanied by the certification set forth in Section 23-135.18.

f. The General Manager will evaluate the data furnished by the User or proposed User and may require additional information. After evaluation and acceptance of the data furnished, the General Manager may issue a permit, authorization, or contract subject to terms and conditions required by the BOARD.

2. **Conditions**

Permits, authorizations and contracts shall be expressly subject to all provisions of this Non-Domestic Sewer Use Ordinance and all other applicable regulations. Permits, authorizations and contracts are subject to User charges and fees established by the BOARD and General Manager, and may contain the following conditions:

a. The unit charge or schedule of User charges and fees for the wastewater to be discharged to a community sewer may be specified in the permit, authorization, or contract or may be established by separate fee schedule established by the General Manager and as revised from time to time;

b. Effluent limits, including Best Management Practices, based on applicable general Pretreatment Standards in CFR 40 Part 403, categorical Pretreatment Standards, local limits, and State and local law, and may include limits on the average and maximum wastewater constituents and characteristics, limits on average and maximum rate and time of discharge or requirements for flow regulations and equalization; and other limits on flow rate, concentration, loading, or any other limit or prohibition deemed necessary by the General Manager;

c. Requirements for installation and maintenance of inspection and sampling facilities;

d. Specifications for monitoring programs which may include sampling locations, frequency of sampling, number, types and standards for tests and reporting schedule; identification of the pollutants to be monitored; requirements for additional monitoring in case of exceedence or other noncompliance or in cases of interference, pass through, or upset at the BOARD's wastewater treatment plant; notification and recordkeeping requirements; identification of the pollutants to be monitored based on the Federal Pretreatment Regulations; and other such conditions as necessary in the best professional judgment of the General Manager;

e. Requirements to maintain and operate treatment facilities and/or implement management practices regarding the discharge or potential discharges to the BOARD's wastewater collection and treatment system;

f. Compliance schedule;

g. Requirements for submission of technical reports or discharge reports;

h. Requirements for maintaining and retaining plant records relating to wastewater discharge as specified by the BOARD, and affording BOARD access thereto;

i. Requirements for notification of the BOARD of any new introduction of wastewater constituents or any substantial change in the volume or character of the wastewater constituents being introduced into the wastewater treatment system;

j. Requirements for notification of slug discharges;

k. Requirements for the modification, revision, revocation or reissuance;

l. Requirements to comply with the permit, authorization, or contract and all other provisions of this Non-Domestic Sewer Use Ordinance.

m. Other conditions as deemed appropriate by the BOARD to ensure compliance with the "Non-Domestic Sewer Use Ordinance".

Contracts may include conditions and limitations not specified in this Non-Domestic Sewer Use Ordinance as deemed necessary and appropriate by the BOARD and General Manager to protect health, safety and welfare; the environment; and/or the wastewater collection and treatment system.

3. **Duration**

Permits, authorizations or contracts shall be issued for a specified time period, not to exceed five (5) years. A permit or authorization may be issued for a period of less than a year or may state the specific date of expiration. A minimum of 180 days prior to the expiration of the User's existing permit, the User shall apply for renewal of the contract. The terms and conditions of the contract may be subject to modification by the BOARD during the term of the contract as limitations or requirements as identified in Division II are modified or other just cause exists. The User shall be informed of any proposed changes in his permit at least 30 days prior to the effective date of the change. Any changes or new conditions in the permit shall include a time schedule for compliance.

4. **Transfer**

Permits, authorizations and contracts are issued to a specific User for a specific operation and discharge. A wastewater discharge permit, authorization or contract shall not be reassigned or transferred or sold to a new owner, new User, different premises, or a new or changed operation without the express written approval of the BOARD. Users must notify the General Manager of a change in ownership (e.g. transfer of ownership, assets, acquisition) in writing and may be required to resubmit application information. Any succeeding owner or User shall also comply with the terms and conditions of the existing contract until such time as BOARD has issued a new permit, authorization or contract to the succeeding owner or User.

5. **Confidential Information**

Information and data on a User obtained from reports, questionnaires, permit applications, permits and monitoring programs and from inspections shall be available to the public or other governmental agency without restriction unless the User specifically requests and is able to demonstrate to the satisfaction of the BOARD that the release of such information would divulge information, processes or methods of production entitled to protection as trade secrets of the User.

When so requested by the person furnishing a report and upon justification of such claim, the portions of a report which might disclose trade secrets or secret processes shall not be made available for inspection by the public but shall be made available upon written request to governmental agencies for uses related to the "Non-Domestic Sewer Use Ordinance", the NPDES, the SID and/or Pretreatment Programs or as otherwise required by law; provided, however, that such portions of a report shall be available for use by the State or any state agency in judicial review or enforcement proceedings involving the person furnishing the report.

Wastewater constituents and characteristics and other factual information provided by any User regarding wastewater or its impact the wastewater collection and treatment system will not be recognized as confidential information.

The BOARD shall not transmit to any governmental agency or to the general public information accepted by the BOARD as confidential, until and unless a ten-day notification is given to the User or as otherwise provided by law.

6. **Monitoring Facilities**

Category 2I, 3 and 3A Users shall provide and operate, at the User's own expense, all required monitoring facilities to allow inspection, sampling, and flow measurement of the building sewer and/or internal drainage system and any monitoring facilities as may be required pursuant to a permit, authorization, or contract. The monitoring facility shall normally be situated in the User's premises, but the BOARD may, when such a location would be impractical or cause undue hardship on the User, allow the facility to be constructed in the public street or sidewalk area with the required, appropriate permission from the City and located so that it will not be obstructed by landscaping or parked vehicles. There shall be ample room in or near such sampling manhole or facility to allow accurate sampling and preparation of samples for analysis. The facility, sampling, and measuring equipment shall be maintained at all times in a safe and proper operating condition at the expense of the User. The monitoring facility shall normally be situated in the right-of-way or easement area. Upon a determination by the General Manager, Category 2FS and 4 Users may be required to provide monitoring facilities as specified in this subsection at their own expense.

7. **Inspection and Sampling**

The BOARD may inspect the facilities of any User to ascertain whether the User is complying with all requirements and the purpose of the "Non-Domestic Sewer Use Ordinance" is being met. Persons or occupants of premises where wastewater is created or discharged shall allow the BOARD or its representative ready access at all reasonable times to all parts of the premises for the purposes of inspection, sampling, records examination or in the performance of any of their duties. The BOARD and the Approval Authority shall have the right to set up on the User's property such devices as are necessary to conduct sampling inspection, compliance monitoring and/or metering operations. Where a User has security measures in force which would require proper identification and clearance before entry into their premises, the User shall make necessary arrangements with their security guards so that upon presentation of suitable identification, personnel from the BOARD, Approval Authority and EPA will be permitted to enter, without delay, for the purposes of performing their specific responsibilities.

8. **Determination of Pretreatment Requirements, Conditions, and other Limitations**

After the User is placed in one of the categories previously described, requirements for Category 2I, 3, 3A, and 4 Users must be determined. The General Manager will make such determinations considering the information provided by the User or proposed User, or other information which may be available to the BOARD. If available, the determination will consider actual data from analysis of plant influent and effluent, sludge analysis, and the characteristics of the water body receiving the plant effluent; pollutant loadings from all significant industrial discharges and best professional judgment based on literature search and/or EPA published estimates. Where appropriate the determination will be made in coordination with ADEM. Effluent limits for priority/categorical pollutants will be in accordance with those promulgated by EPA and ADEM, unless more stringent or additional limits and/or conditions, management and operational practices are necessary to protect the BOARD's wastewater collection and treatment system, to

prevent pass through, interference, or otherwise satisfy the purposes of this Non-Domestic Sewer Use Ordinance.

Section 23-135.15. Appeal Procedures for Requirements, Conditions, and Other Limitations.

Determinations concerning pretreatment requirements, conditions, and other limitations for the use of the BOARD's wastewater collection and treatment system, permits or other authorizations issued to Users, or other determinations or actions under this Non-Domestic Sewer Use Ordinance will be made by the General Manager of the system. Should the User or proposed User object to the General Manager's determination regarding pretreatment requirements, conditions, and other limitations, or any person be aggrieved by a determination under this Non-Domestic Sewer Use Ordinance, the procedures listed below are applicable:

1. Written notice of the objection and appeal and the reasons therefore must be made to the General Manager of the BOARD within thirty (30) calendar days of notification of the requirement. The notice of objection and appeal must identify with reasonable specificity the requirement, condition, or limitation that is the source of the objection, any facts relevant to the disposition of the written notice of objection and appeal, facts believed to be in error in the General Manager's determination, all applicable legal or regulatory provisions, and any proposed alternative requirement, condition, or other limitation. The General Manager will reply to the objection within thirty (30) calendar days. The General Manager may reply in a manner provided under this Non-Domestic Sewer Use Ordinance. Where insufficient information has been provided to the General Manager by the entity providing notification under this subsection, the General Manager may request that additional information be provided within five (5) days. Failure of such entity to provide adequate information is cause for dismissal of the appeal. Decisions by the General Manager may be appealed to the BOARD, or to a committee that the BOARD for the purpose of hearing such appeals may establish. Decisions by the BOARD are final except in cases where ADEM must also concur.

2. Any written appeal submitted and received by the BOARD, which is not addressed within thirty (30) calendar days of receipt, or set for hearing, is considered granted to the User or entity filing such appeal except where the General Manager has, upon review of the written appeal, determined that additional information is necessary and has made a written request for additional information.

3. The thirty-day period within which the User or proposed User can appeal may be waived by the General Manager if extenuating circumstances so justify.

4. The User or proposed User submitting written notice of objection and appeal will be given the time, date and place of the hearing, and may present said objection in his behalf at said hearing.

5. The BOARD may conduct the hearing and take the evidence, or may designate any of its members or any officer or employee to:

    a. Issue in the name of the BOARD notices of hearings requesting the attendance and testimony of witnesses and the production of evidence relevant to any matter involved in such hearings;

    b. Take the evidence;

    c. Transmit a report of the evidence and hearing, including transcripts and other evidence, together with recommendations to the BOARD for action thereof.

6. At any hearing held pursuant to this "Non-Domestic Sewer Use Ordinance," testimony taken may be under oath and recorded stenographically. The transcript, so recorded, will be made

available to any member of the public or any party to the hearing upon payment of the usual charges thereof.

7. After the BOARD has reviewed the evidence, it may issue an order to the User or proposed User upholding the General Manager's determination; requiring additional requirements, conditions or limitations; directing that, following a specified time period, the sewer service be discontinued unless adequate devices or other related appurtenances are installed on existing treatment facilities, and such devices or other related appurtenances are properly operated and maintained, ordering any payments of surcharges, fees, or other amounts as provided in this Non-Domestic Sewer Use Ordinance, or requiring any action as provided in this Non-Domestic Sewer Use Ordinance. Further orders and directives as are necessary and appropriate may be issued.

8. Failure to timely file a written notice of objection and appeal, or failure to comply with these appeal procedures, constitutes a waiver of any right to appeal or otherwise contest or seek review of the permit, authorization, contract to discharge, or any other determination or action under this Non-Domestic Sewer Use Ordinance.

9. In the case of a permit or authorization for a new User, or an existing User seeking increased volume, concentration, loading or frequency of discharge or other change from Normal Operations, the permit or authorization shall be stayed pending appeal, provided however that upon petition filed by a User or proposed User, the BOARD may temporarily allow discharge under the conditions set forth in the permit or authorization under appeal during the pendency of the appeal. The following actions shall not be stayed by appeal: suspensions, terminations, or revocations, temporary authorizations, letter or order establishing conditions and limitations to address non-compliance, harm or potential harm to the wastewater collection and treatment system; or suspensions, terminations, or revocations, temporary authorizations, letter or order establishing conditions and limitations to address pass through or interference with the POTW.

10. This subsection does not limit any legal procedures applicable to the establishment of requirements, conditions, or limitations otherwise provided by law.

Section 23-135.16. Modification of Program Requirements for Users.

Periodically, changes in requirements, conditions or limitations of existing Users may be appropriate. When such changes are deemed necessary, the procedures listed below are applicable:

1. The Users will be notified in writing of the proposed change and of the basis for the change.

2. Included in the notice of change will be any draft permit or contractual requirements, if appropriate.

3. The proposed change in User requirements will be effective thirty (30) days after notice. Should a User object to the change, such objection must be registered with the BOARD as provided in Section 23-135.15 above within thirty (30) days of receipt of the notice of proposed change.

4. The filing of a request by the User for a permit modification does not stay any condition of its existing contractual agreement.

Section 23-135.17. Compliance and Reporting Program.

The purpose of the compliance and reporting program is to insure all Category 2I, 2FS, 3, 3A, and as appropriate Category 4, Users are meeting the terms of their permits, authorizations, and/or contracts for the protection of the wastewater treatment system, human health, safety and the environment. There are four major components of the compliance and reporting program.

1. **Self Monitoring Reports**

a. Self-monitoring reports are required for Users in Category 2I, 3, 3A, and as appropriate Category 2FS & 4. Self-monitoring reports shall contain information necessary to determine compliance with conditions and limitations of the User's permit, authorization or condition. Reports may include the results of sampling and analysis of the discharge, including the flow and the nature and concentration, or production and mass, where requested by the BOARD or General Manager, of pollutants contained therein which are limited by the applicable pretreatment standards or this Non-Domestic Sewer Use Ordinance. The frequency of monitoring and reporting shall be prescribed in the permit, authorization, or contract and will reflect applicable pretreatment standard, other wastewater discharge permit and/or as otherwise prescribed by the approval authority. Copies of self-monitoring reports and all information and documents utilized for their preparation, including laboratory analyses, bench sheets, and quality assurance/quality control information must be kept by the User for a period of five (5) years.

b. All analyses shall be performed in accordance with procedures established by the approval authority pursuant to Section 304(g) of the act and contained in 40 CFR, Part 136 and amendments thereto or with any other test procedures approved by the approval authority. Sampling shall be performed in accordance with the techniques approved by the approval authority.

c. Discharge Monitoring Reports. Users who are required to submit a self-monitoring (DMR) report, either monthly or quarterly, to ADEM as designated in their SID permit must submit a copy of the DMR report to the General Manager so that it is received no later than the 28th day following the monitoring period covered.

d. Category 2FS Users are not required to submit a monthly, self-monitoring report unless required to do so by the BOARD.

e. Any other User may be required to submit self-monitoring reports in a frequency established by the General Manager and containing such information as the General Manager or BOARD may deem necessary and appropriate. Reporting frequency and parameters may be set forth in any permit, authorization, or contract.

f. Failure to submit such report will be a breach of the executed contract and could result in enforcement action.

2. **Compliance Evaluation Inspections**

All Users are subject to compliance evaluation inspections (CEI). The purpose of CEIs is to insure compliance with applicable conditions and limitations in permits, authorizations, or contracts, representative sampling, sampling and analysis in accordance with requirements of 40 C.F.R. Part 136, and the proper operation of any pretreatment facilities specified for any User in Category 2I, Category 2FS and Category 3, Category 3A and Category 4 Users, as appropriate. These inspections are a "walk-through" type and do not involve effluent sampling. These inspections should confirm that all required facilities are in place and being properly operated. A CEI may be done concurrently with the compliance sampling inspection (CSI) described below. All Category 3, 3A, 2I, 2FS and 4 facilities will receive a CEI, and/or CSI, annually.

3. **Compliance Sampling Inspection**

a. The purpose of the compliance sampling inspection (CSI) is to insure that the provisions of this Non-Domestic Sewer Use Ordinance are being complied with, and to protect the BOARD's sewer and wastewater system. Compliance sampling inspection is necessary to determine the nature of constituents discharged by Users to the BOARD's sewer and wastewater system.

b. Any User is subject to a CSI. A CSI for those industrial Users in specific categories may be required in cases of interference, pass through, or upset at the BOARD's wastewater treatment plant.

c. Users will be contacted by a representative of the BOARD or General Manager at the inception of a CSI.

d. For Category 3, 3A or 2I Users, the User will be required to take samples from the User's wastewater discharge and conduct or obtain laboratory analysis for the sample at a frequency specified by the General Manager and for parameters specified by the General Manager.

e. All sampling and analysis must meet applicable technical and professional standards. For wastewater sampling and analysis, all activities must meet the requirements of 40 C.F.R. Part 136, which is incorporated by reference into this Non-Domestic Sewer Use Ordinance. Analytical parameters will include all parameters contained in the User's Permit, authorization, or contract, if one exists; parameters addressed in this Non-Domestic Sewer Use Ordinance, and any other parameter which is (i) contained in the priority pollutant scan referred to in 40 C.F.R. Part 136 and Clean Water Act National Pollutant Discharge Elimination System (NPDES) application requirements, (ii) which the BOARD or General Manager reasonably believes may be present in the User's wastewater, or (iii) which may have caused or have the potential to cause pass through or interference or other upset of the BOARD's wastewater treatment system.

f. The BOARD or General Manager may require respirometry testing as part of the sampling and analysis. Respirometry testing may utilize the POTW biomass as control while determining the affect of the proposed waste stream on the oxygen uptake rate of the control in accordance with Part 2710 B., "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, American Public Health Association, 1015 15th Street, NW., Washington, DC 20005.

g. The BOARD or General Manager reserves the right to split samples and run an independent confirmatory laboratory analysis of the User's wastewater. Nothing in this section affects the BOARD and General Manager's right to conduct random sampling of a User's discharge.

h. All costs of CSI sampling will be borne by the User. The BOARD and General Manager will be responsible for any random sampling or split samples taken at the User's facility.

i. CSIs are anticipated to involve multiple samples over a one month period to ensure compliance in light of variability of processes and wastewater discharges.

j. Representatives of the Board or General Manager shall be permitted reasonable access to all User facilities for the purpose of conducting activities relating to the CSI, which may include observation and inspection of processes, treatment facilities, materials handling, monitoring and laboratory facilities, and related records and other information in the User's possession.

k. Representatives of the Board or General Manager may submit written questions or requests for information from any User relating to compliance with the User's permit, authorization, or contract, any requirement of this Non-Domestic Sewer Use Ordinance, or any state or federal law relating to wastewater discharge.

l. Copies of CSI reports and all information and documents utilized for their preparation, including laboratory analyses, bench sheets, and quality assurance/quality control information must be kept by the User for a period of five (5) years.

4. Compliance Tracking Program

a. The purpose of the Compliance Tracking Program (CTP) is to insure that the provisions of this Non-Domestic Sewer Use Ordinance are being complied with, and to protect the BOARD's sewer and wastewater system, and obtain additional information regarding Users with multiple exceedences, instances of noncompliance, or with wastewater high in strength for pollutants which could harm the BOARD's wastewater plant. Compliance Tracking is necessary to determine the nature of constituents discharged by Users to the BOARD's sewer and wastewater system over a longer period of time.

b. Any User in non-compliance with its permit, authorization, contract, or this Non-Domestic Sewer Use Ordinance is subject to the CTP. Additionally, Users which have the potential to discharge constituents which could alone or in conjunction with other discharges cause or contribute to pass through, interference, or upset at the BOARD's wastewater treatment plant are subject to the CTP.

c. Users will be contacted by a representative of the BOARD or General Manager at the inception of a CTP.

d. Upon being placed on the compliance tracking program, Users must establish compliance. The User will be sampled monthly for a period of time up to 3 consecutive months. If non-compliance continues, the User may be continued on the CTP for a subsequent 3 month period. If there has been no significant non-compliance with any discharge parameter, the User will be sampled only once in the next quarter. If the User continues in compliance, it will be sampled once during the following 6 months. If the User is in compliance at this sampling, it will revert to the sampling frequency established in the permit, authorization, or contract so long as compliance is maintained. If at any time, sample results indicate a significant non-compliance situation, the User will be placed on a monthly CSI schedule and may be required to repeat the CTP again and shall be required to establish compliance through the procedure described above.

e. Results of self monitoring may also be used in determining compliance so long as sampling and analytical methods meet the requirements of this Non-Domestic Sewer Use Ordinance.

f. Copies of CTP reports and all information and documents utilized for their preparation, including laboratory analyses, bench sheets, and quality assurance/quality control information must be kept by the User for a period of five (5) years.

g. Nothing in this subsection affects the BOARD and General Manager's authority to bring enforcement actions or seek such other relief as provided by law against a User.

5. **Significant Non-Compliance**

Any User that meets one or more of the following criteria shall be considered in significant noncompliance:

a. Chronic exceedence of wastewater discharge limits, defined here as those in which 66% or more of all the measurements taken during a 6-month period exceed (by any magnitude) the daily maximum limit or the average limit for the same parameter.

b. Technical review criteria (TRC) violations, defined here as those in which 33% or more of all the measurements for each pollutant parameter taken during a 6-month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC (TRC=1.4 for fats, oil and grease, and 1.2 for all other parameters except pH).

c. Any other exceedence of a pretreatment effluent limit (daily maximum or longer-term average) that the control authority determines has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of POTW personnel or the general public).

d. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare, or to the environment, or has resulted in the POTW exercising its emergency authority under paragraph 40 CFR Part 403.8(f)(l)(vi)(B) to halt or prevent such a discharge.

e. Acute exceedence of a wastewater discharge limit by greater than twice the concentration or mass loading established by a permit, authorization, or contract.

f. Exceedence of the maximum allowable concentration for pollutants identified in Section 23-135.

g. Failure to comply with any condition of a permit, authorization, or contract for three consecutive reporting periods or greater.

h. Any discharge to the wastewater collection and treatment system without a permit, authorization, or contract where such permit, authorization, or contract is required by this Non-Domestic Sewer Use Ordinance.

i. Failure to operate, maintain, or implement treatment, management practices, or other activities necessary to controlling pollutants in the discharge to the BOARD's sewer and wastewater treatment system;

j. More than one instance of Non-Compliance as set forth in Subsection 6, below.

Provided, however, that the General Manager may determine based upon the totality of circumstances that an event or events which would otherwise constitute significant non-compliance as set forth herein does not warrant categorization as significant non-compliance.

6. **Noncompliance.** Any other failure to meet any requirement of this Non-Domestic Sewer Use Ordinance or any permit, authorization, or contract issued pursuant to this Non-Domestic Sewer Use Ordinance. Noncompliance includes but is not limited to the following:

a. Failure to meet a compliance schedule milestone contained in a wastewater discharge permit or enforcement order for starting construction, completing construction, or attaining final compliance.

b. Failure to provide any required reports, including baseline monitoring reports, reports

on compliance with Categorical Pretreatment Standard deadlines, periodic self monitoring reports, and reports on compliance with compliance schedules.

c. Failure to meet any condition or limitation of any permit, authorization or contract.

d. Failure to accurately report noncompliance.

e. Any other violation(s) which the Board and/or General Manager determines will adversely affect the operation or implementation of the Board and/or General Manager's pretreatment program.

f. Any exceedence not defined as significant-non-compliance.

Provided, however, that the General Manager may determine based upon the totality of circumstances that an event or events which would otherwise constitute compliance as set forth herein does not warrant categorization as non-compliance.

Section 23-135.18. Requirements for Filing of Information.

1. Provision of false information constitutes a violation of this Non-Domestic Sewer Use Ordinance and may subject the person submitting such information to prosecution under Code of Decatur, Alabama Section 16-1, or revocation, termination, or suspension of any permit, authorization or contract.

2. The following statement or its equivalent shall be submitted by the User or Proposed User at the time of submittal of any application or other information to establish compliance or conditions and limitations, reporting information, response to enforcement activities:

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 being charged with a misdemeanor under the Code of Decatur, Alabama.

[Reserved 23-135.19--23-135.20]

DIVISION IV - ENFORCEMENT ACTIONS

Section 23-135.21. General.

1. The failure of any person to comply with any provision contained in this Non-Domestic Sewer Use Ordinance or any permit, authorization, or contract issued pursuant to this Non-Domestic Sewer Use Ordinance shall be a violation which shall be enforced in accordance with the penalties and provisions as hereinafter set forth.
2. The BOARD and General Manager or his designee may at any time take appropriate enforcement action including but not limited to the actions specified below.
3. Notwithstanding any enforcement mechanism or action specified herein, where appropriate, the BOARD and General Manager may suspend any discharge, terminate or revoke any permit, authorization, or contract where necessary to accomplish the purposes of this Non-Domestic Sewer Use Ordinance, to protect health, safety and welfare; the environment; or the wastewater collection and treatment system.

Section 23-135.22. Inspections.

The BOARD, General Manager or his designee shall have the right to direct and conduct such investigations as it may reasonably deem necessary to carry out its duties as described in this Non-Domestic Sewer Use Ordinance. For this purpose, the General Manager or his authorized employees and representatives, upon presentation of proper credentials, shall have the right to enter at reasonable times on any property, public or private, for the purpose of investigating and inspecting the conditions relating to pollution and to inspect the operating records of any sewage system, waste treatment work, or other sewage disposal method, including the property owned or operated by any User. Upon refusal of the right of entry, the BOARD or General Manager may apply to the appropriate court or tribunal for relief including access, warrant upon showing probable cause that a potential violation exists.

Section 23-135.23. Reports and Information.

Whenever required to carry out the objectives of this Non-Domestic Sewer Use Ordinance, including but not limited to (1) developing or assisting in the development of any limitation, condition, prohibition, or standard for discharges, pretreatment, performance, or other standard, (2) determining whether any person is in violation of any such effluent or permit limitation, condition, or prohibition, or other limitation, condition, or prohibition established by this Non-Domestic Sewer Use Ordinance, the BOARD or General Manager may require any person to establish and maintain such records, make such reports, install, use, and maintain such monitoring equipment or methods, (including where appropriate, biological monitoring methods), (3) sample water or wastewater (at such locations, at such intervals, and in such manner as the Board and/or General Manager may prescribe) and provide such other information as may reasonably require or be necessary. Copies of any reports required by this Non-Domestic Sewer Use Ordinance, and all information and documents utilized for their preparation, including laboratory analyses, bench sheets, and quality assurance/quality control information must be kept by the User for a period of five (5) years.

Section 23-135.24. Enforcement Actions.

1. The BOARD or General Manager may take any enforcement or any other action which in its discretion is appropriate under the circumstances.
2. Initial Enforcement Response Options: Where information indicates the potential for non-compliance by a User with this Non-Domestic Sewer Use Ordinance, the General Manager may directly proceed to any other enforcement action, or may at their discretion take any or all of the following actions:

Action	Application	Description	Industrial User Response	Penalty
Notice of Noncompliance	Non-significant instance of noncompliance	Letter advising User of instance of noncompliance	Acknowledge receipt and respond as requested.	None
Notice of Violation	Significant instance of noncompliance	Letter advising User of instance of noncompliance	Investigation, report, and statement of corrective action and implementation of corrective action within schedule agreeable to BOARD or General Manager	$100 - $10,000 per day per occurrence, to be assessed if industrial User fails to comply with subsequent BOARD order
Notice of Violation	Significant instances of noncompliance or any discharge which threatens POTW and/or	Cease and desist order requiring compliance within an appropriate timeframe	Formal compliance plan and schedule, interim and final compliance progress reports	$1,000 - $10,000 per day per occurrence, to be assessed if industrial User fails to comply with subsequent

	general public			BOARD order

When the General Manager finds any of the instances of noncompliance identified above, the General Manager may serve upon the User a written Notice. Where an Industrial User Response is identified, within ten (10) days of the receipt of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted by the User to the BOARD and General Manager. The General Manager may extend the time for response as appropriate and necessary upon request by the User made before expiration of the ten (10) day period. Submission of a response, plan, or other documentation in no way relieves the User of liability for any violations occurring before or after receipt of the Notice. Nothing in this section shall limit the authority of the BOARD or General Manager to take any action, including emergency actions or any other enforcement action, including suspension, revocation, or termination, without a Notice first being issued.

3. Enforcement Orders

   a. The BOARD and General Manager is authorized to issue orders requiring compliance with this Non-Domestic Sewer Use Ordinance or assessing appropriate fines or penalties. Such orders may be issued by letter or by consent.
   b. Orders by consent may include assurances of voluntary compliance, or other similar document establishing an agreement with any User responsible for noncompliance. Such documents shall include specific action to be taken by the User to correct the noncompliance within a time period specified in the document. Orders by consent shall have the same force and effect as binding contracts under Alabama law and shall be judicially enforceable by petition for specific performance.
   c. The BOARD or General Manager shall not enter into an Order by Consent unless the Order provides for compliance with this Non-Domestic Sewer Use Ordinance, remedies instances of non-compliance and provides reasonable assurance of future compliance, and the User waives any show cause hearing where such hearing has not occurred, or any right of appeal.

4. Show Cause Hearing

   a. The BOARD or General Manager may order any User who causes or allows an unauthorized discharge or discharges in violation of, exceeding, or in non-compliance with any requirement of this Non-Domestic Sewer Use Ordinance or any permit, authorization, or contract pursuant to this Non-Domestic Sewer Use Ordinance to show cause why the proposed enforcement action should not be taken. A notice shall be served on the User specifying the time and place of a hearing to be held by the City of Decatur regarding the violation, exceedence, or non-compliance, the reasons why the action is to be taken, the proposed enforcement action, and directing the user to show cause before the City why the proposed enforcement action should not be taken. The notice of the hearing shall be served personally or by certified mail (return receipt requested) at least ten (10) days before the hearing. Service may be made on any agent or officer of a corporation.
   b. The City may itself conduct the hearing and take the evidence, or may designate any officer or employee to.
   c. Issue in the name of the city notices of hearings requesting the attendance and testimony of witnesses and the production of evidence relevant to any matter involved in such hearings.
   d. Take the evidence.
   e. Transmit a report of the evidence and hearing. The User may at its own expense arrange for a transcript of the show cause hearing to be made by certified court reporter.

The User may submit such other evidence as appropriate, together with recommendations to the city for action thereon. The transcript, so recorded, will be made available to any member of the public or any party to the hearing upon payment of the usual charges thereof.

f. In any hearing held pursuant to this article, testimony taken must be under oath and evidence submitted by affidavit or otherwise in accordance with contemporary rules governing the admissibility of evidence.

g. After the City has reviewed the evidence, it may issue an order requiring any action authorized by law, including an order assessing fines, penalties, or other measures; an order to the user responsible for the discharge directing that, following a specified time period, the sewer service be disconnected unless adequate treatment facilities, devices or other related appurtenances shall have been installed on existing treatment facilities, devices or other related appurtenances are properly operated. Further orders and directives as are necessary and appropriate may be issued.

Section 23-135.25. Courts and Other Tribunals.

The BOARD or General Manager is authorized to take all actions provided by law in the appropriate court or other tribunal with jurisdiction to enforce the provisions of this Non-Domestic Sewer Use Ordinance, any permit, authorization, contract, order, or other instrument provided herein or take such other action as is necessary and appropriate to accomplish the goals of this Non-Domestic Sewer Use Ordinance. Such action may include, when the BOARD or General Manager finds that a User has violated or continues to violate, any provision of this Non-Domestic Sewer Use Ordinance, a permit, authorization, contract or order issued hereunder, or any other pretreatment standard or requirement, the BOARD or General Manager may petition the appropriate court through the BOARD's attorney for the issuance of a temporary or permanent restraining order, injunction, or other appropriate mechanism, which restrains the further violation and/or compels the specific performance of the Non-Domestic Sewer Use Ordinance provision, permit, authorization, contract, or consent order, or other requirement imposed by this Non-Domestic Sewer Use Ordinance on activities of the User. Such action may also include an action for the assessment of fines or penalties. The BOARD and General Manager may also seek such other action as is appropriate for legal and/or equitable relief, including a requirement for the User to conduct environmental remediation or other appropriate response to address harm or potential for harm to the public, human health, or the environment. A petition for injunctive relief shall not be a bar against, or a prerequisite for, taking any other action against a User.

Section 23-135.26. Harmful Contributions.

The BOARD may suspend the wastewater treatment service and/or wastewater discharge permit when such suspension is necessary, in the opinion of the General Manager, in order to stop an actual or threatened discharge which presents or may present an imminent or substantial endangerment to the health or welfare of persons, to the environment, causes interference or pass through to the POTW, causes the BOARD to exceed any limitation or violate any condition of its NPDES permit, or any discharge in violation of this article, where the discharge presents harm, nuisance, or otherwise threatens the health, safety and welfare of the Citizens.

Any User notified of a suspension of the wastewater treatment service and/or the wastewater discharge permit or authorization shall immediately stop or eliminate the contribution. In the event of a failure of the person to comply voluntarily with the suspension order, the BOARD shall take such steps as deemed necessary including immediate severance of the sewer connection, to prevent or minimize damage to the POTW system or endangerment to any individuals. The BOARD shall reinstate the wastewater discharge permit and/or the wastewater treatment service upon proof of the elimination of the noncomplying discharge. A detailed written statement submitted by the User describing the causes of the harmful contribution and the measures taken to prevent any future occurrence shall be submitted to the city within fifteen (15) days of the date of occurrence.

Section 23-135.27. Termination.

Any User in non-compliance with its permit, in violation of a requirement, condition, or limitation of its permit or this Non-Domestic Sewer Use Ordinance, or applicable state and federal regulations, is subject to having its permit, authorization, contract or permission to discharge terminated in accordance with the procedures of Division IV of the "Non-Domestic Sewer Use Ordinance". Cause for termination also includes, but is not limited to, the following:

1. Failure of a User to factually report tbe wastewater constituents and characteristics of their discharge.

2. Failure of the User to report significant changes in operations, or wastewater constituents and characteristics.

3. Refusal of reasonable access to the User's premises for the purpose of inspection or monitoring.

4. Violation of conditions of the permit or authorization.

5. Falsification of information, fraud, or submittal of misleading information, or failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time.

6. A change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge controlled by the permit (for example, plant closure or termination of a discharge to a publicly or privately owned treatment works).

7. The permittee's failure to submit a complete application to include additional information as requested by the General Manager.

8. The Users failure to remit all water and sewer charges and fees when due.

9. Upon receipt of information from a government agency that the effluent from the wastewater treatment plant is no longer of quality permitted for discharge to a watercourse, and it is found that the customer is delivering wastewater to the BOARD's system that cannot be sufficiently treated or requires treatment that is not provided by the BOARD as normal domestic treatment.

10. The User:

    a. discharges industrial waste or wastewater that is in violation of a Wastewater Discharge Contract with the BOARD;

    b. discharges water or wastes having a deleterious effect upon the BOARD's sewer system;

    c. discharges wastewater at an uncontrolled, variable rate in sufficient quantity to cause an imbalance in the wastewater treatment system;

    d. repeats a discharge of prohibited wastes to the BOARD's sewer;

11. Such other good cause as determined by the BOARD.

The BOARD shall not be held responsible in any way for any damages or inconveniences experienced by the User as a result of termination of service.

Section 23-135.28. Appeals of Enforcement Actions.

1. Any person aggrieved by the decision of tbe BOARD or General Manager under this Division IV, Enforcement Actions, may within fifteen (15) days thereafter appeal there from to the Municipal Utilities Board of Decatur by filing with the General Manager a written notice of appeal specifying the decision from which the appeal is taken. The written notice of appeal shall identify with reasonable specificity the specific findings, conclusions, and/or actions by the BOARD or General Manager sought to be appealed, any facts relevant to the disposition of the appeal, facts believed to be in error in the General Manager's or BOARD's decision, all applicable legal or regulatory provisions, and any proposed alternative disposition.

2. In case of such appeal, the General Manager of the wastewater department shall deliver a copy of any notice and any other documentation regarding the violation, exceedence, or non-compliance, a transcript if available, and any testimony to the Municipal Utilities Board of Decatur which the Board shall hold a hearing on the matter based upon the information provided and hear arguments of such appellant and of the representatives of the BOARD and make such decision as such Municipal Utilities Board may determine to be appropriate and proper.

3. Any party aggrieved by any final decision of such Municipal Utilities Board may within fifteen (15) days thereafter appeal there from to the circuit court of Morgan County, Alabama, hy filing with such Municipal Utilities Board a written notice of appeal specifying the decision from which the appeal is taken. In case of such appeal, such Municipal Utilities Board shall cause a copy of the transcript of tbe proceedings in the action and such other documents as formed the basis of the Municipal Utilities Board decision to be certified to the court to which the appeal is taken, and the action in such court shall be tried de novo without a jury.

Section 23-135.29. Legal Action.

In addition to the provisions above, if any person discharges sewage, industrial wastes or other wastes into the BOARD's wastewater disposal system contrary to the provisions of the Non-Domestic Sewer Use Ordinance, Federal or State requirements, or any order of the BOARD or General Manager, or any User fails or refuses to remit fees or charges under this Non-Domestic Sewer Use Ordinance, the BOARD's attorney may commence an action for appropriate legal and/or equitable relief in appropriate Court or other tribunal, including the Circuit Court or District Court of this county, the United States District Court or other proper court. In the event that the BOARD or General Manager is required to take legal action in the BOARD's or the General Manager's behalf or to defend the BOARD, for any matter arising out of the improper discharge of wastewater into the BOARD's treatment and/or collection facility, for violation of any of this Non-Domestic Sewer Use Ordinance, for breach of contract or any other matter arising under the contract between the User and the BOARD, then the User shall pay all the BOARD's attorneys' fees, expenses and costs.

Section 23-135.30. Fines and Criminal Actions.

Violation of any provision of this Non-Domestic Sewer Use Ordinance or any permit or authorization issued hereunder shall be punishable by civil or criminal fines of up to $10,000 per day for each violation. Violation of this Non-Domestic Sewer Use Ordinance may also be prosecuted as a criminal misdemeanor under Section 1-8 of the Code of Decatur, Alabama. The BOARD and General Manager may seek the assistance of the City Attorney and Department of Police in the enforcement of any provisions of this Ordinance.

DIVISION V. ADMINISTRATION

Section 23-135.31. Indemnification.

In any and all instances where the BOARD has reasonable cause to believe that any of the rules,

regulations, or provisions set forth in "Non-Domestic Sewer Use Ordinance" or that have otherwise been adopted by the BOARD have been, may be, or are being violated by any User discharging waste into the BOARD's wastewater collection and treatment system, the BOARD may require such person to give bond or enter into an indemnity agreement in a form acceptable to the BOARD with sufficient surety to protect, indemnify, hold harmless and defend the BOARD from any loss, damage, or expense that may suffer or incur as a result of non-compliance or violation by such User; and, in the event of the failure to do so after ten (10) days notice by registered U. S. Mail that the same will be required, the use of the BOARD's wastewater collection and treatment system by such User shall be denied or discontinued.

Section 23-135.32. Severability.

If any provision, paragraph, word, section or article of the "Non-Domestic Sewer Use Ordinance" is invalidated by any court of competent jurisdiction, the remaining provision, paragraphs, words, sections, and chapters shall not be affected and shall continue in full force and effect.

Section 23-135.33. Conflict.

All other resolutions and parts of other resolutions inconsistent or in conflict with any part of the "Non-Domestic Sewer Use Ordinance" are hereby repealed to the extent of such inconsistency or conflict.

Section 23-135.34. Special Agreements.

No statement contained in the "Non-Domestic Sewer Use Ordinance" shall be construed as preventing any special agreement or arrangement between the BOARD and any industrial concern by the BOARD for treatment, subject to payment therefore, by the industrial concern.

Section 2. This ordinance shall become effective September 1, 2008.

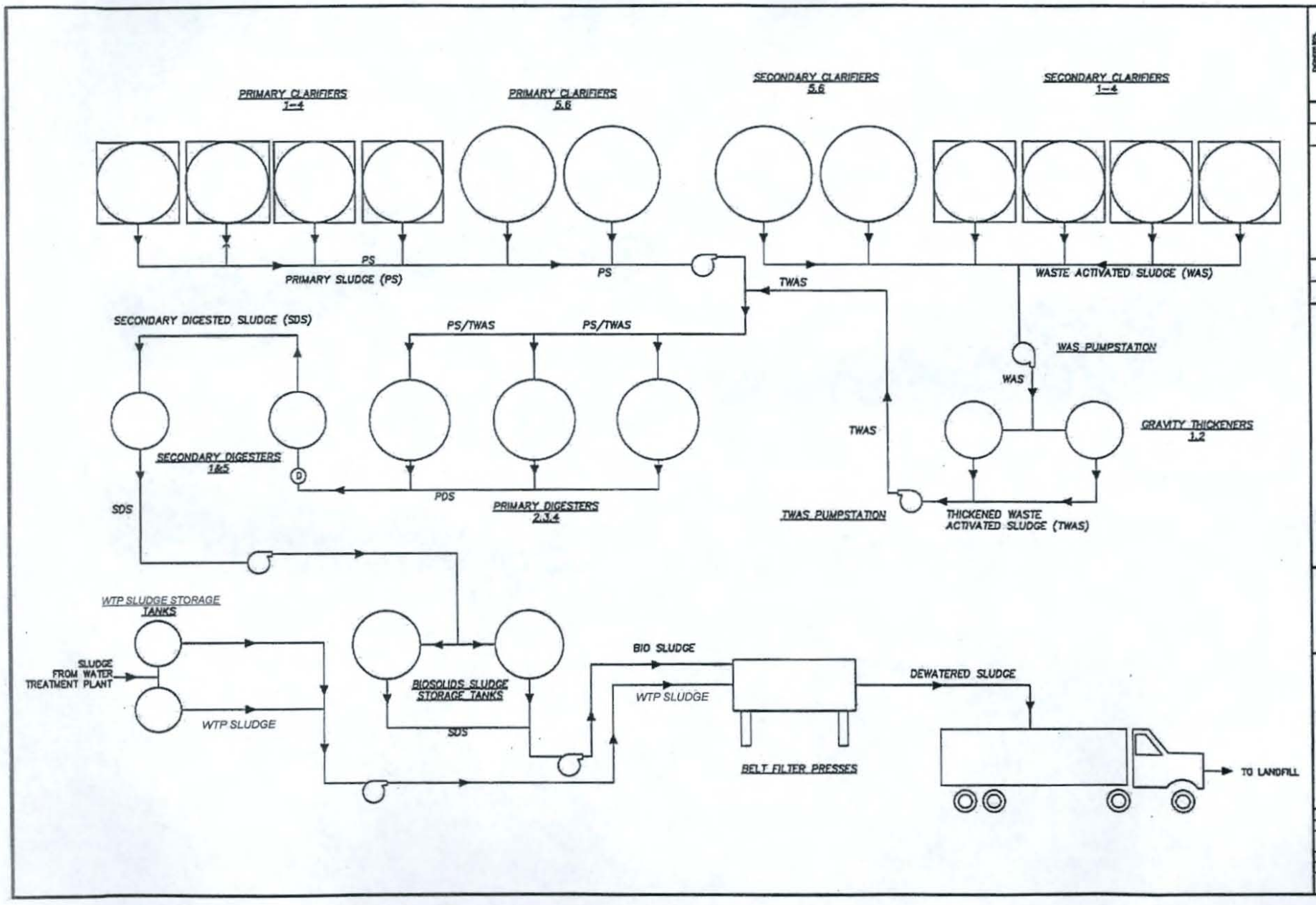
ADOPTED this 7th day of July, 2008.
AUTHENTICATED:

/s/ Betty Marshall
City Clerk

APPROVED this 10th day of July, 2008.

/s/ Don Kyle
Mayor

DECATUR WWTP - SLUDGE STORAGE AREA


PRIMARY CLARIFIERS 1-4
PRIMARY CLARIFIERS 5,6
SECONDARY CLARIFIERS 5,6
SECONDARY CLARIFIERS 1-4
PS
PRIMARY SLUDGE (PS)
PS
TWAS
WASTE ACTIVATED SLUDGE (WAS)
SECONDARY DIGESTED SLUDGE (SDS)
PS/TWAS
PS/TWAS
WAS PUMPSTATION
WAS
TWAS
GRAVITY THICKENERS 1,2
SECONDARY DIGESTERS 1&5
D
PDS
PRIMARY DIGESTERS 2,3,4
SDS
TWAS PUMPSTATION
THICKENED WASTE ACTIVATED SLUDGE (TWAS)
WTP SLUDGE STORAGE TANKS
SLUDGE FROM WATER TREATMENT PLANT
WTP SLUDGE
BIOSOLIDS SLUDGE STORAGE TANKS
SDS
BIO SLUDGE
WTP SLUDGE
BELT FILTER PRESSES
DEWATERED SLUDGE
TO LANDFILL
BIOSOLIDS FLOW DIAGRAM
DECATUR UTILITIES
DRY CREEK WWTF SOLIDS HANDLING FACILITIES
Constantine Engineering
P01

Arsenic Speciation Sampling

January 2018

Prepared By

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1.0 Introduction

Decatur Utilities (**DU**) operates a Publicly Owned Treatment Works (**POTW**), Dry Creek Wastewater Treatment Plant, located at 902 Wilson Street Decatur, Morgan County, Alabama. This facility is permitted under the National Pollutant Discharge Elimination System (**NPDES**); permit number AL0048593, for discharges to the Tennessee River (Wheeler Lake).

As required, **DU** has submitted to the Alabama Department of Environmental Management (**ADEM**) an application for the renewal of the **NPDES** permit. Analytical data for Total Arsenic was included with the application for renewal. **DU** collected 3 samples over the time period of 2014 – 2016; the data is summarized in Table 1-1 below; the Certificates of Analysis are included in Appendix I.

Table 1-1
Total Recoverable Arsenic

Date	Arsenic, Total Recoverable	Units	Method
20-Feb-14	<0.00050	mg/l	EPA 200.8
14-May-15	0.00078	mg/l	EPA 200.8
21-Jul-16	0.00341	mg/l	EPA 200.8

The Environmental Protection Agency (**EPA**) has developed analytical methods which support the water quality monitoring programs authorized under the Clean Water Act (**CWA**). **CWA** Section 304(a) requires **EPA** to publish water quality criteria that reflect the latest scientific knowledge concerning the physical fate (e.g., concentration and dispersal) of pollutants, the effects of pollutants on ecological and human health, and the effect of pollutants on biological community diversity, productivity, and stability.

In some cases, these water quality criteria are as much as 280 times lower than the MDL achievable using existing **EPA** methods and required to support technology – based permits. Therefore, **EPA** has developed new sampling and analysis methods to specifically address state needs for measuring toxic metals (arsenic in this case) at water criteria levels. **EPA** Method 1632

was specifically developed to provide reliable measurements of arsenic at **EPA** water quality criteria, including the speciation of arsenic, providing more technically reliable data to be used in the evaluation of the relative toxicity to the receiving stream.

In developing methods for determination of trace metals, **EPA** found that one of the greatest difficulties was precluding sample contamination during collection, transport, and analysis. EPA Method 1632 is designed to preclude contamination in nearly all situations. [1]

This report has been prepared to provide a more technically reliable set of data for arsenic, specifically including the speciation of arsenic, present in the final effluent of the **POTW**.

[1] EPA Method 1632 - Chemical Speciation of Arsenic in Water and Tissue by Hydride Generation Quartz Furnace Atomic Absorption Spectrometry – Draft August 1998.

2.0 Arsenic Toxicity

The relative toxicity of arsenic depends primarily on:

- Inorganic or organic form,
- Valence state,
- Solubility,
- Physical state and purity, and
- Rates of absorption and elimination [2]

The toxicity of arsenic compounds can vary greatly. In general, arsenic compounds can be ranked from highest to lowest toxicity:

- Inorganic trivalent compounds (As^{3+}, Arsenite),
- Organic trivalent compounds (organic forms of arsenic found in seafood are generally considered to be non-toxic, and are excreted in urine within 48 hours of ingestion),
- Inorganic pentavalent compounds (As^{5+}, Arsenate),
- Organic pentavalent compounds, and
- Elemental arsenic.

Inorganic arsenic is generally more toxic than organic arsenic. Forms of arsenic that are more rapidly absorbed are more toxic, while those most rapidly eliminated tend to be less toxic. Arsenite and arsenate forms are highly soluble in water. For the purposes of this report, we are focusing on the more toxic As^{3+}, Arsenite.

[2] ATSDR 2007

3.0 January 2018 Sampling Events

ENERSOLV personnel collected three grab samples for arsenic speciation on:

- January 16, 2018
- January 19, 2018
- January 22, 2018

Table 3-1 below summarizes the samples collected for each sampling event.

Table 3-1

Sampling Event Summary

Description	Field Filtered	Field Preserved	Method
Arsenic, Total	No	No	EPA 200.8
Arsenic, Total Dissolved	Yes	No	EPA 200.8
Inorganic Arsenic, Dissolved	Yes	Yes	EPA 1632

Samples for inorganic arsenic were collected, field filtered, and field preserved as outlined in EPA method 1632.

4.0 Analytical Summary

Table 4-1 below summarizes the analytical data for the January 2018 sampling events. The detailed analytical reports are included in Appendix II.

Table 4-1

January 2018 Analytical Summary

Date	Arsenic, Total	Units	Method	Arsenic, Dissolved	Units	Method	[redacted]
16-Jan-18	0.70	ug/l	EPA 200.8	0.67	ug/l	EPA 200.8	[redacted]
19-Jan-18	0.71	ug/l	EPA 200.8	0.70	ug/l	EPA 200.8	[redacted]
22-Jan-18	0.76	ug/l	EPA 200.8	0.78	ug/l	EPA 200.8	[redacted]

5.0 Conclusion

The purpose of this project was to review the total recoverable arsenic data submitted to **ADEM** by **DU** as part of the **NPDES** permit renewal for the **POTW**. To evaluate the submitted data ENERSOLV developed a sampling and analysis plan to collect additional data, including:

- Total arsenic by **EPA** method 200.8,
- Total dissolved arsenic by **EPA** method 200.8, and
- Arsenite (As^{3+}) by **EPA** method 1632

The total arsenic by **EPA** method 200.8 ranged from 0.70 – 0.76 ug/l for the samples collected for this project. The total dissolved arsenic by **EPA** method 200.8 ranged from 0.67 – 0.78 ug/l indicating the total arsenic present in the final effluent is primarily soluble arsenic. The total and total dissolved data for this sampling event, although very consistent, does not accurately represent the relative toxicity for arsenic in the final effluent. Based on this limited data it is likely the final effluent does not contain elemental arsenic; however the arsenic present in these samples could include organic arsenic which is generally considered to be non-toxic.

The arsenic speciation results provide a further understanding of the levels of arsenic (inorganic) and the potential relative toxicity of arsenic in the final effluent. These concentrations ranged from 0.051 – 0.082 ug/l as arsenite (As^{3+}). On average, the inorganic arsenic (as arsenite – As^{3+}) was over 10 times lower than the total arsenic found in the samples for this project.

With the advances in technology provided by **EPA** method 1632 we are able to lower the MDL for arsenic and are able to provide much more reliable data to be used in evaluating the relative toxicity of arsenic in the final effluent.

The total recoverable arsenic data submitted by **DU** in the permit renewal application was generated using **EPA** method 200.8. Using this data to predict any potential relative toxicity for arsenic in the final effluent, although conservative, would be an inaccurate representation of the impact of the final effluent on the receiving stream. It is the opinion of the writer that the

inorganic arsenic (as arsenite – As^{3+}) data would provide a more accurate representation of any potential relative toxicity of the final effluent on the receiving stream.

Appendix I – Total Arsenic Certificates of Analysis

February 20, 2014

John Beard
Decatur Utilities
PO Box 2232
Decatur, AL 35609

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Sample ID Number	Sample Description	Date Collected	Time Collected	Date Submitted
AC60099	Outfall 0012 Permit Renewal Composite	2/11/14	10:55	2/11/14
AC60100	Outfall 0012 Permit Renewal Grab	2/11/14	13:35	2/11/14

ENERSOLV is accredited to ISO/IEC 17025:2005 by Laboratory Accreditation Bureau and to the TNI 2003 and 2009 Standards (NELAP) by the Florida Department of Health. Our quality system also meets relevant quality system requirements of ISO 9001:2008. Not all tests performed by *ENERSOLV* are covered by these accreditations. Tests within our scope of accreditation are indicated by an asterisk (*) in the Test Result section of this report. Tests not included in the accreditations are performed within accordance with *ENERSOLV* Standard Operating Procedures and the quality control program using, where applicable, USEPA methodology.

This cover page and the attached chain-of-custody record(s) are integral parts of your report. *ENERSOLV* considers this report your official record. This information shall remain in *ENERSOLV*'s active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call us at (256) 350-0846.

Reviewed by:

Karen Sutton

Karen Sutton
Vice President Client Services

2220 Beltline Road SW • Decatur, Alabama 35601
P.O. Box 1646 • Decatur, Alabama 35602 • (256) 350-0846 • Fax: (256) 350-0686

Report Date: 2/20/14
Report Time: 11:47

SAMPLE RESULTS REPORT

REPORT TO
John Beard Decatur Utilities PO Box 2232 Decatur, AL 35609

ENERSOLV - maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.

NELAP Accredited
Florida DOH
#E871078

EPA/ADEM Certification
No. 40160

Tests within the scope of accreditation are indicated by an asterisk (*)

This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.

Sample Point: Outfall 0012 Permit Renewal Composite Collected: 02/11/2014 Submitted: 02/11/2014

Sample ID	Analyte Name	Result	Units	Qual	Regulatory Limit
AC60099	* Total Calcium CAS: 7440-70-2	42.6	mg/l		
AC60099	* Carbonaceous BOD	<2.00	mg/l	GJ	
AC60099	Hardness	124	mg/l as CaCO3		
AC60099	* Total Mercury CAS: 7439-97-6	<0.000200	mg/l		
AC60099	Total Magnesium CAS: 7439-95-4	4.22	mg/l		
AC60099	* Ammonia-Nitrogen CAS: 7664-41-7	3.83	mg/l		
AC60099	Nitrite-Nitrogen	0.641	mg/l		
AC60099	Nitrate-Nitrogen CAS: 7697-37-2	5.07	mg/l		
AC60099	Nitrate plus Nitrite-Nitrogen	5.71	mg/l		
AC60099	* Total Phosphorus CAS: 7723-14-0	<1.00	mg/l		
AC60099	Total Dissolved Solids	286	mg/l		
AC60099	* Total Kjeldahl Nitrogen	5.26	mg/l		
AC60099	Total Recoverable Silver CAS: 7440-22-4	<0.00100	mg/l		
AC60099	Total Recoverable Arsenic CAS: 7440-38-2	<0.00050	mg/l		
AC60099	Total Recoverable Beryllium CAS: 7440-41-7	<0.00100	mg/l		
AC60099	Total Recoverable Cadmium CAS: 7440-43-9	<0.00100	mg/l		
AC60099	Total Recoverable Chromium CAS: 7440-47-3	0.00115	mg/l		
AC60099	Total Recoverable Copper CAS: 7440-50-8	0.00347	mg/l		
AC60099	Total Recoverable Nickel	0.00359	mg/l		
AC60099	Total Recoverable Lead CAS: 7439-92-1	<0.00100	mg/l		
AC60099	Total Recoverable Antimony	0.00138	mg/L		
AC60099	Total Recoverable Selenium CAS: 7782-49-2	<0.00100	mg/l		

ENERSOLV
a Solutions Company

Report Date: 2/20/14
Report Time: 11:47

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Sample ID	Analyte Name	Result	Units	Qual	Regulatory Limit

Data Qualifiers:
B: Estimated BOD/CBOD value - final dissolved oxygen value less than 1.0 mg/l.
D: Estimated BOD/CBOD value - sample dissolved oxygen depletion less than method required 2.0 mg/l.
G: Glucose/Glutamic Acid standard outside quality control criteria for BOD/CBOD.
H: Sample beyond accepted holding time.
J: Estimated value- the analyte was positively identified; the quantitation is an estimation (e.g. matrix interference, outside calibration range).
N: Presumptive evidence of presence (parameter tentatively identified based on mass spectral library search; quality control requirements confirmation was not met, i.e., presence of analyte was not confirmed by alternative procedure.)
Q: One or more quality control criteria (LCS, surrogate spike recovery, continued calibration, etc.) failed. Data may be estimated or biased.
T: Test temperature fell outside method specified range.
Y: Analysis performed from improperly preserved sample.

Analysis Information

Sample ID	Analysis	Method	Analyst	Analysis Start Date/Time		BOD/CBOD/Fecal Analysis End Date/Time	
AC60099	Ammonia-Nitrogen	SM 4500 NH3-C	LDM	02/12/2014	08:30		
AC60099	Carbonaceous BOD	SM 5210B-2001	DOG/LDM	02/12/2014	14:25	02/15/2014	11:02
AC60099	Hardness	EPA 200.7	DJN	02/14/2014	15:15		
AC60099	Nitrate plus Nitrite-Nitrogen	EPA 300.0	HGT	02/11/2014	18:05		
AC60099	Nitrate-Nitrogen	EPA 300.0	HGT	02/11/2014	18:05		
AC60099	Nitrite-Nitrogen	EPA 300.0	HGT	02/11/2014	18:05		
AC60099	Total Calcium	EPA 200.7	DJN	02/14/2014	15:15		
AC60099	Total Dissolved Solids	SM 2540C	JLP	02/17/2014	06:05		
AC60099	Total Kjeldahl Nitrogen	SM 4500-Norg C	LDM	02/12/2014	06:00		
AC60099	Total Magnesium	EPA 200.7	DJN	02/14/2014	15:15		
AC60099	Total Mercury	EPA 245.1	KW	02/18/2014	16:08		
AC60099	Total Phosphorus	EPA 365.3	SH	02/14/2014	10:30		
AC60099	Total Recoverable Antimony	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Arsenic	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Beryllium	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Cadmium	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Chromium	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Copper	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Lead	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Nickel	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Selenium	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Silver	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Thallium	EPA 200.8	KW	02/12/2014	13:40		
AC60099	Total Recoverable Zinc	EPA 200.8	KW	02/12/2014	13:40		

ENERSOLV
a Solutions Company

Report Date: 2/20/14
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Sample ID	Analyte Name		Result	Units		Qual	Regulatory Limit	
AC60099	Total Suspended Solids	USGS I-3765-85	DOG	02/12/2014	06:45			
AC60100	Dissolved Oxygen	SM 4500-OG	DM	02/11/2014	13:38			
AC60100	E. coli	mColiBlue-24	LDM	02/11/2014	14:10		02/12/2014	14:10
AC60100	Form 2A Volatiles	EPA 624	FW	02/12/2014	10:27			
AC60100	Form 2C Semivolatiles	EPA 625	ET	02/19/2014	13:51			
AC60100	HEM (Oil and Grease)	EPA 1664A	DOG	02/14/2014	06:00			
AC60100	pH	SM 4500 H+B	DM	02/11/2014	13:37			
AC60100	Phenolics (4AAP)	EPA 420.1	JW	02/14/2014	08:40			
AC60100	Residual Chlorine	4500-Cl D-2000	DM	02/11/2014	13:40			
AC60100	Total Cyanide	ASTM D7511-09	JW	02/14/2014	13:30			
AC60100	Water Temperature (C)		DM	02/11/2014	13:37			

The results contained in this report are only representative of the sample(s) received.

ENERSOLV
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
(256) 350-0846

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COC NUMBER	44377		
PAGE	1	of	1
Permit Renewal Comp.			

COMPANY/CLIENT NAME	ACCOUNT NUMBER	CLIENT P.O. NUMBER	ENERSOLV PROJECT NUMBER
Decatur Utilities	1011		
CLIENT POINT OF CONTACT	CLIENT PHYSICAL ADDRESS		CITY/STATE/ZIP
John Beard	902 Wilson Street NW		Decatur AL 35601
CLIENT EMAIL	PHONE NUMBER	OTHER INFORMATION	
jbeard@decaturutilities.com	256 301-3821		
SAMPLE COLLECTED BY: Darrin Miller	EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE (REQUIRED)		

REQUESTED ANALYSES

ENERSOLV LAB NUMBER	ENERSOLV LOCATION CODE	SAMPLE DESCRIPTION	SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	GRAB	COMP	#HARD	#NO3NO2IC	#P-T	TDS	#TKN	TRAG2, TRAS2, TRBE2	TRCD2, TRCR2, TRCU2	TRNI2, TRPB2, TRSB2	TRSE2, TRTL2, TRZN2	#CBOD	TSS	#NH3	Hg,T-AA	!Collection
HC60099	DU-WW-0012-C	Permit Renewal Comp.	2-11-14	1341		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 4.5

SAMPLER INFORMATION		FIELD INFORMATION								Qty	Type	Vol.	Preserv.	Parameter	
										1	Plastic	1/2 Gallon	Iced	A	TDS, NO3NO2,CBOD,TSS
Start Date	2-10-14	pH su		TRC mg/l		DO mg/l		Temp deg C		1	Plastic	Quart	H2SO4	B	P, TKN, NH3
Start Time	1055	Date		Date		Date		Date		1	Plastic	Quart	HNO3	C	Metals
Stop Date	2-11-14	Time		Time		Time		Time							
Stop Time	1055	Analyst		Analyst		Analyst		Analyst							
		SM 4500H+B		SM 4500-Cl D		SM 4500-O G		SM 2550B							

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2-11-14	1358						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

RECEIVED FOR LABORATORY USE BY: (SIGNATURE) [signature] DATE 2-11-14 TIME 1358

SAMPLE STATUS: ☐ Accepted ☐ Rejected ☐ Accepted with Exception

Enersolv Form FLD-020-SOP A rev. 5

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
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COC NUMBER	2885952792
PAGE	1 of 1
Permit Renewal Grab	

COMPANY/CLIENT NAME	ACCOUNT NUMBER	CLIENT P.O. NUMBER	ENERSOLV PROJECT NUMBER
Decatur Utilities	1011		
CLIENT POINT OF CONTACT	CLIENT PHYSICAL ADDRESS		CITY/STATE/ZIP
John Beard	902 Wilson Street NW		Decatur AL 35601
CLIENT EMAIL	PHONE NUMBER	OTHER INFORMATION	
jbeard@decaturutilities.com	256 301-3821		
SAMPLE COLLECTED BY: DARRIN MILLER	EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE (REQUIRED)		

ENERSOLV LAB NUMBER	ENERSOLV LOCATION CODE	SAMPLE DESCRIPTION	SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	GRAB	COMP	CN-T	PHENOLICS	#OG	$624-FORM2A	$625-FORM2C	EC	DO	pH	CL-Residual	Temp				
HC60100	DU-WW-0012-G	Permit Renewal Grab	2-11-14	1335	X		X	X	X	X	X	X	X	X	X	X				

Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 4.5C

SAMPLER INFORMATION		FIELD INFORMATION								Qty	Type	Vol.	Preserv.	Parameter	
										1	Plastic	Pint	NAOH	A	CN
Start Date		pH su	7.3	TRC mg/l	.68	DO mg/l	7.68	Temp deg C	14.0	1	Glass	Amber Liter	H2SO4	B	Phenolics
Start Time		Date	2-11-14	Date	2-11-14	Date	2-11-14	Date	2-11-14	2	Glass	Liter	HCL	CD	OG
Stop Date		Time	1337	Time	1340	Time	1338	Time	1337	2/2	Glass	40ml Vials	HCL/Iced	EFGH	624
Stop Time		Analyst	DM	Analyst	DM	Analyst	DM	Analyst	DM	4	Glass	Amber Liter	Iced	IJKL	625
		SM 4500H+B		SM 4500-Cl D		SM 4500-O G		SM 2550B		1	Sterile	100ml	Iced		E coli

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2-11-14	1358						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	SAMPLE STATUS:
[signature]	2/11/14	1358	☑ Accepted ☐ Rejected ☐ Accepted with Exception

Enersolv Form FLD-020-SOP A rev. 5

Enersolv Field Calibration Record

Calibrated By: Jimmy Kay Date: 2-11-14 Time: 1100

pH Meter Calibration - Equipment number: 27

D. Miller 2-11-14

	7.00 pH buffer Acc. Range 7.0 +/- 0.1	10.00pH buffer Acc. Range 10.0+/- 0.1	Acceptance Criteria met?	
			Yes	No
Value before calibration. s.u.	7.0	10.0		
Buffer Temp. before calibration. °C	20.3	20.3		
Value after calibration. s.u.	7.0	10.1	✓	
Buffer Temp. after calibration. °C	20.1	20.2		
Reagent Number – Pre-calibration	R-8957	R-8955		
Reagent Number – Post-calibration	R-9331	R-8958		

pH Meter Post Cal. Date: 2-11-14 Time: 1430 4.0 Buffer Cal., if required Date/time: _____ NA ☑

	7.00 pH buffer Acc. range 7.00+/- 0.2	10.0 pH buffer Acc. Range 10.00+/-0.2		4.00 pH buffer Acc. Range 4.00+/-0.1
Value. s.u.	7.1	10.1		
Buffer Temp. °C	17.2	18.4		
Reagent Number	R-9331	R-8958		Pre Post

Dissolved Oxygen Meter - Equipment Number: 03F1417AM NA ☐

	Oxygen meter reading	Calibration successful?
Value before calibration, mg/L	9.43	
% Air Saturation / Slope	101.7	
Value after calibration, mg/L	9.38	Yes No

Turbidity Meter – Equipment number: 150 NA ☑

	1 NTU	10 NTU
Meter Reading Before Calibration, NTU		
Meter Reading After Calibration, NTU		
Turbidity Standard Reagent Number		

Conductivity Meter - Equipment Number: _____ NA ☑

Value of Conductivity Standard, uS	
Meter reading before calibration, uS	
Cell Constant Value	
Conductivity Standard Reagent Number	

Residual Chlorine Meter - Equipment Number: 156 NA ☐

Reagent numbers – Phenylarsine oxide (free & total) R- 6668 pH 7 buffer (free) R- _____

pH 4 buffer (total) R- 8253 Potassium iodide (total) 6532 $KMnO_4$ LCS: S- 7702

Circuit check (check one): OK ✓ Needs Attention _____

$KMnO_4$ LCS, mg/L Acceptance Limits 0.24 – 0.25mg/L Before 0.25 After 0.26

DPD Total Chlorine Reagent Pillows: R- _____

Hach DPD Standard Lot no. _____ Before: STD 1 _____ STD 2 _____ STD 3 _____

After: STD 1 _____ STD 2 _____ STD 3 _____

Cal check acceptance limits: (0.13 – 0.31) (0.75 - 0.95) (1.37 – 1.65)

For all field instruments: Calibration Confirmation Interval: Prior to each use, but not more than daily
Calibration Environmental Conditions: Room temperature

Note: If equipment calibration fails to meet acceptance limits, the equipment must be taken out of service and tagged for repair.

ENERSOLV
a Solutions Company

May 14, 2015

John Beard
Decatur Utilities
PO Box 2232
Decatur, AL 35609

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Sample ID Number	Sample Description	Date Collected	Time Collected	Date Submitted
AD07581	Permit Renewal Comp.	5/7/15	00:00	5/7/15
AD07582	Permit Renewal Grab	5/7/15	08:15	5/7/15

ENERSOLV is accredited to ISO/IEC 17025:2005 by Laboratory Accreditation Bureau and to the TNI 2003 and 2009 Standards (NELAP) by the Florida Department of Health. Our quality system also meets relevant quality system requirements of ISO 9001:2008. Not all tests performed by *ENERSOLV* are covered by these accreditations. Tests within our scope of accreditation are indicated by an asterisk (*) in the Test Result section of this report. Tests not included in the accreditations are performed within accordance with *ENERSOLV* Standard Operating Procedures and the quality control program using, where applicable, USEPA methodology.

This cover page and the attached chain-of-custody record(s) are integral parts of your report. *ENERSOLV* considers this report your official record. This information shall remain in *ENERSOLV*'s active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call us at (256) 350-0846.

Reviewed by:

Karen Sutton

Karen Sutton
Vice President Client Services

2220 Beldline Road SW • Decatur, Alabama 35601
P.O. Box 1646 • Decatur, Alabama 35602 • (256) 350-0846 • Fax: (256) 350-0686

Report Date: 5/14/15
Report Time: 8:34

SAMPLE RESULTS REPORT

REPORT TO
John Beard Decatur Utilities PO Box 2232 Decatur, AL 35609

ENERSOLV maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.

NELAP Accredited
Florida DOH
#E871078

EPA/ADEM Certification
No. 40160

Tests within the scope of accreditation are indicated by an asterisk (*).

This report may contain information that is confidential and or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.

Sample Point: Permit Renewal Comp. **Collected: 05/07/2015** **Submitted: 05/07/2015**

Sample ID	Analyte Name	Result	Units	Qual	Regulatory Limit
AD07581	* Total Calcium CAS: 7440-70-2	46.2	mg/l		
AD07581	* Carbonaceous BOD	3.40	mg/l		
AD07581	Hardness	136	mg/l as CaCO3		
AD07581	* Total Mercury CAS: 7439-97-6	<0.000200	mg/l		
AD07581	Total Magnesium CAS: 7439-95-4	4.91	mg/l		
AD07581	* Ammonia-Nitrogen CAS: 7664-41-7	14.0	mg/l		
AD07581	Nitrite-Nitrogen	1.99	mg/l		
AD07581	Nitrate-Nitrogen CAS: 7697-37-2	<0.500	mg/l		
AD07581	Nitrate plus Nitrite-Nitrogen	1.99	mg/l		
AD07581	* Total Phosphorus CAS: 7723-14-0	<1.00	mg/l		
AD07581	Total Dissolved Solids	393	mg/l		
AD07581	* Total Kjeldahl Nitrogen	16.5	mg/l		
AD07581	Total Recoverable Silver CAS: 7440-22-4	<0.00100	mg/l		
AD07581	Total Recoverable Arsenic CAS: 7440-38-2	0.000780	mg/l		
AD07581	Total Recoverable Beryllium CAS: 7440-41-7	<0.00100	mg/l		
AD07581	Total Recoverable Cadmium CAS: 7440-43-9	<0.00100	mg/l		
AD07581	Total Recoverable Chromium CAS: 7440-47-3	<0.00100	mg/l		
AD07581	Total Recoverable Copper CAS: 7440-50-8	0.00186	mg/l		
AD07581	Total Recoverable Nickel	0.00430	mg/l		
AD07581	Total Recoverable Lead CAS: 7439-92-1	<0.00100	mg/l		
AD07581	Total Recoverable Antimony	<0.00100	mg/L		
AD07581	Total Recoverable Selenium CAS: 7782-49-2	0.00211	mg/l		

Report Date: 5/14/15
Report Time: 8:34

SAMPLE RESULTS REPORT

REPORT TO
John Beard Decatur Utilities PO Box 2232 Decatur, AL 35609

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Sample ID	Analyte Name	Result	Units	Qual	Regulatory Limit

Data Qualifier Defintions:

B: Estimated BOD/CBOD value - final dissolved oxygen value less than 1.0 mg/l.
D: Estimated BOD/CBOD value - sample dissolved oxygen depletion less than method required 2.0 mg/l.
G: Glucose/Glutamic Acid standard outside quality control criteria for BOD/CBOD.
H: Sample beyond accepted holding time.
J: Estimated value- the analyte was positively identified; the quantitation is an estimation (e.g. matrix interference, outside calibration range).
N: Presumptive evidence of presence (parameter tentatively identified based on mass spectral library search; quality control requirements confirmation was not met, i.e., presence of analyte was not confirmed by alternative procedure.)
Q: One or more quality control criteria (LCS, surrogate spike recovery, continued calibration, etc.) failed. Data may be estimated or biased.
T: Test temperature fell outside method specified range.
Y: Analysis performed from improperly preserved sample.

Analysis Information

Sample ID	Analysis	Method	Analyst	Analysis Start Date/Time		BOD/CBOD/Fecal Analysis End Date/Time	
AD07581	Ammonia-Nitrogen	SM 4500 NH3-C	RAC	05/08/2015	08:00		
AD07581	Carbonaceous BOD	SM 5210B-2001	JL/MD	05/07/2015	15:43	05/12/2015	10:34
AD07581	Hardness	EPA 200.7	DJN	05/13/2015	10:10		
AD07581	Nitrate plus Nitrite-Nitrogen	Calculation	HGT	05/07/2015	15:19		
AD07581	Nitrate-Nitrogen	EPA 300.0	HGT	05/07/2015	15:19		
AD07581	Nitrite-Nitrogen	EPA 300.0	HGT	05/07/2015	15:19		
AD07581	Total Calcium	EPA 200.7	DJN	05/13/2015	10:10		
AD07581	Total Dissolved Solids	SM 2540C	SH	05/07/2015	15:00		
AD07581	Total Kjeldahl Nitrogen	SM 4500-Norg C	RAC	05/08/2015	06:00		
AD07581	Total Magnesium	EPA 200.7	DJN	05/13/2015	10:10		
AD07581	Total Mercury	EPA 245.1	KW	05/12/2015	16:37		
AD07581	Total Phosphorus	EPA 365.3	JW/MD	05/08/2015	11:15		
AD07581	Total Recoverable Antimony	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Arsenic	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Beryllium	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Cadmium	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Chromium	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Copper	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Lead	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Nickel	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Selenium	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Silver	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Thallium	EPA 200.8	KW	05/08/2015	15:51		
AD07581	Total Recoverable Zinc	EPA 200.8	KW	05/08/2015	15:51		

Report Date: 5/14/15
Report Time: 8:34

SAMPLE RESULTS REPORT

REPORT TO
John Beard Decatur Utilities PO Box 2232 Decatur, AL 35609

ENERSOLV maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.

NELAP Accredited
Florida DOH
#E871078

EPA/ADEM Certification
No. 40160

Tests within the scope of accreditation are indicated by an asterisk (*)

This report may contain information that is confidential and or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.

Sample ID	Analyte Name		Result	Units		Qual	Regulatory Limit	
AD07581	Total Suspended Solids	USGS I-3765-85	MD	05/08/2015	09:38			
AD07582	E. coli	mColiBlue-24	RAC	05/07/2015	11:07		05/08/2015	11:07
AD07582	Form 2A Volatiles	EPA 624	FW	05/11/2015	09:09			
AD07582	HEM (Oil and Grease)	EPA 1664A	JG	05/08/2015	06:45			
AD07582	Permit Renewal Semivolatiles	EPA 625	ET	05/08/2015	18:52			
AD07582	Phenolics (4AAP)	EPA 420.1	JW	05/08/2015	07:05			
AD07582	Total Cyanide	ASTM D7511-09	JW	05/11/2015	12:50			

The results contained in this report are only representative of the sample(s) received.

ENERSOLV
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
(256) 350-0846

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COC NUMBER	821916
PAGE	1 of 1
Permit Renewal Comp.	

COMPANY/CLIENT NAME	ACCOUNT NUMBER	CLIENT P.O. NUMBER	ENERSOLV PROJECT NUMBER
Decatur Utilities	1011		
CLIENT POINT OF CONTACT	CLIENT PHYSICAL ADDRESS		CITY/STATE/ZIP
John Beard	902 Wilson Street NW		Decatur AL 35601
CLIENT EMAIL	PHONE NUMBER	OTHER INFORMATION	
jbeard@decaturutilities.com	256 301-3821		
SAMPLE COLLECTED BY: Tonnice Wallace	EXPEDITED REPORT DELIVERY (SURCHARGE)	DATE DUE (REQUIRED)	

REQUESTED ANALYSES

ENERSOLV LAB NUMBER	ENERSOLV LOCATION CODE	SAMPLE DESCRIPTION	SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	GRAB	COMP	#HARD	#NO3NO2IC	#P-T	TDS	#TKN	TRAG2, TRAS2, TRBE2	TRCD2, TRCR2, TRCU2	TRNI2, TRPB2, TRSB2	TRSE2, TRTL2, TRZN2	#CBOD	TSS	#NH3	HG-AA	!Collection
AD07581	DU-WW-Permit-C	Permit Renewal Comp.	5-7-2015	0800		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 5.2c

SAMPLER INFORMATION		FIELD INFORMATION							
Start Date	5-6-2015	pH su		TRC mg/l		DO mg/l		Temp deg C	
Start Time	0000	Date		Date		Date		Date	
Stop Date	5-6-2015	Time		Time		Time		Time	
Stop Time	2400	Analyst		Analyst		Analyst		Analyst	
		SM 4500H+B		SM 4500-Cl D		SM 4500-O G		SM 2550B	

Qty	Type	Vol.	Preserv.	Parameter	
1	Plastic	1/2 Gallon	Iced	A	TDS, NO3NO2,CBOD,TSS
1	Plastic	Quart	H2SO4	B	P, TKN, NH3
1	Plastic	Quart	HNO3	C	Metals

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-7-2015	912						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	SAMPLE STATUS
[signature]	5-7-15	0912	☑ Accepted ☐ Rejected ☐ Accepted with Exception

Enersolv Form FLD-020-SOP A rev. 5

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
(256) 350-0846

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COC NUMBER	863543
PAGE	1 of 1
Permit Renewal Grab	

COMPANY/CLIENT NAME	ACCOUNT NUMBER	CLIENT P.O. NUMBER	ENERSOLV PROJECT NUMBER
Decatur Utilities	1011		

CLIENT POINT OF CONTACT	CLIENT PHYSICAL ADDRESS	CITY/STATE/ZIP
John Beard	902 Wilson Street NW	Decatur AL 35601

CLIENT EMAIL	PHONE NUMBER	OTHER INFORMATION
jbeard@decaturutilities.com	256 301-3621	

SAMPLE COLLECTED BY	EXPEDITED REPORT DELIVERY (SURCHARGE)
Tonnice Walla	DATE DUE (REQUIRED)

ENERSOLV LAB NUMBER	ENERSOLV LOCATION CODE	SAMPLE DESCRIPTION	SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	GRAB	COMP	CN	PHENOLICS	OG	$624-FORM2A	$625-FORM2C	EC	DO	pH	CL-Residual	Temp				
AD07802	DU-WW-Permit-G	Permit Renewal Grab	~~5-17-TW~~ 5-7-2015	~~0800~~ 0815	X		X	X	X	X	X	X	X	X	X	X				

Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 5.2 -

SAMPLER INFORMATION		FIELD INFORMATION								Qty	Type	Vol.	Preserv.	Parameter	
										1	Plastic	Pint	NAOH	A	CN
Start Date		pH su	7.08	TRC mg/l	0.57	DO mg/l	6.57	Temp. deg C.	22.2	1	Glass	Amber Liter	H2SO4	B	Phenolics
Start Time		Date	5-7-2015	Date	5-7-2015	Date	5-7-2015	Date	5-7-2015	2	Glass	Liter	HCL	CD	OG
Stop Date		Time	0750	Time	0750	Time	0745	Time	0745	2/2	Glass	40ml Vials	HCL/Iced	EFGH	624
Stop Time		Analyst	JW	Analyst	JW	Analyst	JW	Analyst	JW	3	Glass	Amber Liter	Iced	IJK	625
		SM 4500H+B		SM 4500-Cl D		SM 4500-O G		SM 2550B		1	Sterile	100ml	Iced	L	E coli

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-7-2015	912						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	SAMPLE STATUS:
[signature]	5-7-15	0912	☑ Accepted ☐ Rejected ☐ Accepted with Exception

Enersolv Form FLD-020-SOP A rev. 5

ENERSOLV
a Solutions Company

July 28, 2016

John Beard
Decatur Utilities
1002 Central Parkway SW
Decatur, AL 35603

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

LabNumber	Sample Description	Date/Time Collected		Date Submitted
1609329-01	Permit Renewal Composite	7/21/16	15:00	7/21/16
1609329-02	Permit Renewal Grab	7/21/16	15:34	7/21/16

ENERSOLV is accredited to ISO/IEC 17025:2005 by Laboratory Accreditation Bureau and to the TNI 2003 Standard by the Florida Department of Health. Our quality system also meets relevant quality system requirements of ISO 9001:2008. Not all tests performed by *ENERSOLV* are covered by these accreditations. Tests within our scope of accreditation are indicated by an asterisk (*) in the Test Result section of this report. Tests not included in the accreditations are performed in accordance with *ENERSOLV* Standard Operating Procedures and the quality control program using, where applicable, USEPA methodology.

This cover page and the attached chain-of-custody record(s) are integral parts of your report. *ENERSOLV* considers this report your official record. This information shall remain in *ENERSOLV*'s active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call us at (256) 350-0846.

Karen Sutton

Karen Sutton
Vice President Client Services

ENERSOLV
a Solutions Company

SAMPLE RESULTS REPORT

Report Date/Time: 07/28/2016 09:31

REPORT TO
John Beard Decatur Utilities 1002 Central Parkway SW Decatur, AL 35603

NELAP Accredited Florida DOH #E871078

ENERSOLV maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.

ENERSOLV also maintains ISO/IEC 17025 accreditation through Laboratory Accreditation Bureau for the specific tests listed in L-A-B Certificate #L2239 scope of accreditation.

Tests within the scope of accreditation are indicated by an asterisk (*).

LABORATORY ACCREDITATION BUREAU ACCREDITED TO ISO/IEC 17025
Cert# L2239 Testing

ADEM Drinking Water Certification No. 40160

This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.

Analyte Name	Result	Units	Qual	Regulatory Limit
Sample Point: Permit Renewal Composite	**Sample ID: 1609329-01**	**Collected: 07/21/2016**		**Submitted: 07/21/2016**
Anions by IC				
Nitrate plus Nitrite-Nitrogen	13.3	mg/l		
* Nitrate-Nitrogen CAS: 14797-55-8	12.3	mg/l		
* Nitrite-Nitrogen CAS: 14797-65-0	1.04	mg/l		
Inorganics				
* Ammonia-Nitrogen CAS: 8013-59-0	0.704	mg/l		
* Carbonaceous BOD	3.60	mg/l		
Total Dissolved Solids	583	mg/l		
* Total Kjeldahl Nitrogen	3.96	mg/l		
* Total Phosphorus	2.54	mg/l		
* Total Suspended Solids	21.7	mg/l		
Metals by ICP-MS				
* Total Recoverable Antimony CAS: 7440-36-0	0.00178	mg/l		
* Total Recoverable Arsenic CAS: 7440-38-2	0.00341	mg/l		
* Total Recoverable Beryllium CAS: 7440-41-7	<0.00100	mg/l		
* Total Recoverable Cadmium CAS: 7440-43-9	<0.00100	mg/l		
* Total Recoverable Chromium CAS: 7440-47-3	<0.00100	mg/l		
* Total Recoverable Copper CAS: 7440-50-8	0.00485	mg/l		
* Total Recoverable Lead CAS: 7439-92-1	<0.00100	mg/l		
* Total Recoverable Nickel CAS: 7440-02-0	0.00510	mg/l		
* Total Recoverable Selenium CAS: 7782-49-2	0.00711	mg/l		

ENERSOLV
a Solutions Company

SAMPLE RESULTS REPORT

Report Date/Time: 07/28/2016 09:31

REPORT TO
John Beard Decatur Utilities 1002 Central Parkway SW Decatur, AL 35603

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NELAP Accredited Florida DOH #E871078

LABORATORY ACCREDITATION BUREAU ACCREDITATION

Cert# L2239 Testing

ADEM Drinking Water Certification No. 40140

This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.

All calculations are performed prior to rounding per EPA and *Standard Methods* requirements.

Data Qualifiers:

< Less than reporting limit

Analysis Information

Lab Number	Analysis	SpecificMethod	Analyst	Analysis Start Date/Time	Analysis End Date/Time
1609329-01	Total Recoverable Silver	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Recoverable Arsenic	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Recoverable Beryllium	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Calcium	EPA 200.7/6010C	DJN	07/26/2016 07:00	
1609329-01	Carbonaceous BOD	SM 5210B-2001	SH/JBQ	07/22/2016 15:31	07/27/2016 09:37
1609329-01	Total Recoverable Cadmium	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Recoverable Chromium	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Recoverable Copper	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Hardness	EPA 200.7	DJN	07/26/2016 07:00	
1609329-01	Total Mercury	EPA 245.1	KW	07/25/2016 08:30	
1609329-01	Total Magnesium	EPA 200.7/6010C	DJN	07/26/2016 07:00	
1609329-01	Ammonia-Nitrogen	SM 4500 NH3-C	DS	07/25/2016 08:00	
1609329-01	Total Recoverable Nickel	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Nitrite-Nitrogen	EPA 300.0	MD	07/22/2016 15:34	
1609329-01	Nitrate-Nitrogen	EPA 300.0	MD	07/22/2016 15:34	
1609329-01	Nitrate plus Nitrite-Nitrogen	EPA 300.0	MD	07/22/2016 15:34	
1609329-01	Total Phosphorus	EPA 365.3	JW	07/26/2016 14:15	
1609329-01	Total Recoverable Lead	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Recoverable Antimony	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Recoverable Selenium	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Dissolved Solids	SM 2540C	SH	07/26/2016 09:15	
1609329-01	Total Kjeldahl Nitrogen	SM 4500-Norg C	DS	07/25/2016 08:00	
1609329-01	Total Recoverable Thallium	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-01	Total Suspended Solids	USGS I-3765-85	JBQ	07/25/2016 13:30	
1609329-01	Total Recoveable Zinc	EPA 200.8/6020A	KW	07/26/2016 15:15	
1609329-02	Total Cyanide	ASTM D7511-09	JW	07/27/2016 12:50	
1609329-02	E. coli	mColiBlue-24	RAC	07/21/2016 15:55	07/22/2016 15:55
1609329-02	HEM (Oil and Grease)	EPA 1664A	JG	07/26/2016 07:00	
1609329-02	Phenolics (4AAP)	EPA 420.1	JW/SH	07/26/2016 09:20	

ENERSOLV
a Solutions Company

SAMPLE RESULTS REPORT

Report Date/Time: 07/28/2016 09:31

REPORT TO
John Beard Decatur Utilities 1002 Central Parkway SW Decatur, AL 35603

NELAP Accredited Florida DOH #E871078

ENERSOLV maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.

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Tests within the scope of accreditation are indicated by an asterisk (*).

LABORATORY ACCREDITATION BUREAU
Cert# L2239 Testing

ADEM Drinking Water Certification No. 40160

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1609329-02	BN/AE Semivolatiles	EPA 625	AJL/RH	07/25/2016 08:45
1609329-02	Volatile Organic Analytes	EPA 624	ET	07/25/2016 10:10

The results contained in this report are only representative of the sample(s) received.

ENERSOLV
A Solutions Company

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
(256) 350-0846

www.enersolv.com

COC NUMBER	110060
PAGE	1 of 1
Permit Renewal Comp.	

COMPANY/CLIENT NAME	ACCOUNT NUMBER	CLIENT P.O. NUMBER	ENERSOLV PROJECT NUMBER
Decatur Utilities	1011		

CLIENT POINT OF CONTACT	CLIENT PHYSICAL ADDRESS	CITY/STATE/ZIP
John Beard	902 Wilson Street NW	Decatur AL 35601

CLIENT EMAIL	PHONE NUMBER	OTHER INFORMATION
jbeard@decaturutilities.com	256 301-3821	

SAMPLE COLLECTED BY: Damion Miller

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE (REQUIRED)

REQUESTED ANALYSES

ENERSOLV LAB NUMBER	ENERSOLV LOCATION CODE	SAMPLE DESCRIPTION	SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	GRAB	COMP	#HARD	#NO3NO2IC	#P-T	TDS	#TKN	TRAG2, TRAS2, TRBE2	TRCD2, TRCR2, TRCU2	TRNI2, TRPB2, TRSB2	TRSE2, TRTL2, TRZN2	#CBOD	TSS	#NH3	HG-AA	(Collection
1604329 01	DU-WW-Permit-C	Permit Renewal Comp.	7-21-16	1500		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 17.0 Ice

SAMPLER INFORMATION		FIELD INFORMATION								Qty	Type	Vol.	Preserv.	Parameter	
										1	Plastic	1/2 Gallon	Iced	A	TDS, NO3NO2,CBOD,TSS
Start Date	7-20-16	pH su		TRC mg/l		DO mg/l		Temp deg.C		1	Plastic	Quart	H2SO4	B	P, TKN, NH3
Start Time	1500	Date		Date		Date		Date		1	Plastic	Quart	HNO3	C	Metals
Stop Date	7-21-16	Time		Time		Time		Time							
Stop Time	1500	Analyst		Analyst		Analyst		Analyst							
		SM 4500H+B		SM 4500-Cl D		SM 4500-O G		SM 2550B							

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Damion Miller	7-21-16	1553						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	SAMPLE STATUS
	7-21-16	1553	☐ Accepted ☐ Rejected ☑ Accepted with Exception

Enersolv Form FLD-020-SOP A rev. 5

ENERSOLV
a Solutions Company

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601
(256) 350-0846

www.enersolv.com

COC NUMBER	215779
PAGE	1 of 1
Permit Renewal Grab	

COMPANY/CLIENT NAME	ACCOUNT NUMBER	CLIENT P.O. NUMBER	ENERSOLV PROJECT NUMBER
Decatur Utilities	1011		

CLIENT POINT OF CONTACT	CLIENT PHYSICAL ADDRESS	CITY/STATE/ZIP
John Beard	902 Wilson Street NW	Decatur AL 35601

CLIENT EMAIL	PHONE NUMBER	OTHER INFORMATION
jbeard@decaturutilities.com	256 301-3821	

SAMPLE COLLECTED BY: Damin Miller

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE (REQUIRED)

ENERSOLV LAB NUMBER	ENERSOLV LOCATION CODE	SAMPLE DESCRIPTION	SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	GRAB	COMP	CN	PHENOLICS	OG	$624-FORM2A	$625-FORM2C	EC	DO	pH	CL-Residual	Temp				
1609324-02	DU-WW-Permit-G	Permit Renewal Grab	7-21-16	1534	X		X	X	X	X	X	X	X	X	X	X				

Comments:

Collector to complete shaded areas, as applicable

SAMPLE TEMPERATURE RECEIVED @ 17.0 Iced

SAMPLER INFORMATION		FIELD INFORMATION								Qty.	Type	Vol.	Preserv.	Parameter	
										1	Plastic	Pint	NAOH	A	CN
Start Date		pH su	7.0	TRC mg/l	0.25	DO mg/l	6.5	Temp deg C	31.1	1	Glass	Amber Liter	H2SO4	B	Phenolics
Start Time		Date	7-21-16	Date	7-21-16	Date	7-21-16	Date	7-21-16	2	Glass	Liter	HCL	CD	OG
Stop Date		Time	1542	Time	1536	Time	1539	Time	1540	2/2	Glass	40ml Vials	HCL/Iced	~~EFGH~~	EFG, 624 HIJ
Stop Time		Analyst	DM	Analyst	DM	Analyst	DM	Analyst	DM	3	Glass	Amber Liter	Iced	IJK	KLM 625
		SM 4500H+B		SM 4500-Cl D		SM 4500-O G		SM 2550B		1	Sterile	100ml	Iced	L	E coli

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Damin Miller	7-21-16	1553						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	SAMPLE STATUS
[signature]	7/21/16	1553	☐ Accepted ☐ Rejected ☑ Accepted with Exception

Enersolv Form FLD-020-SOP A rev. 5

Enersolv Field Calibration Record

Calibrated By: D. Miller Date: 7.21-16 Time: 0721

pH Meter Calibration - Equipment number: 28

	7.00 pH buffer Acc. Range 7.0 +/- 0.1	10.00pH buffer Acc. Range 10.0+/- 0.1	Acceptance Criteria met?	
			Yes	No
Value before calibration, s.u.	7.11	10.07		
Buffer Temp. before calibration, °C	22.8	22.5		
Value after calibration, s.u.	7.03	10.03	✓	
Buffer Temp. after calibration, °C	22.8	22.5		
Reagent Number – Pre-calibration	EE51703	EE50301		
Reagent Number – Post-calibration	EE61307	EE61308		

pH Meter Post Cal. Date: 7.21-16 Time: 1600 4.0 Buffer Cal., if required Date/time: _____ NA ☑

	7.00 pH buffer Acc. range 7.00+/- 0.2	10.0 pH buffer Acc. Range 10.00+/-0.2		4.00 pH buffer Acc. Range 4.00+/-0.1
Value, s.u.	7.01	10.03		
Buffer Temp. °C	23.2	23.4		
Reagent Number	EE61307	EE61308		Pre Post

Dissolved Oxygen Meter - Equipment Number: _____ NA ☑

	Oxygen meter reading	Calibration successful?
Value before calibration, mg/L		
% Air Saturation / Slope		
Value after calibration, mg/L		Yes No

Turbidity Meter – Equipment number: 150 NA ☑

	1 NTU	10 NTU
Meter Reading Before Calibration, NTU		
Meter Reading After Calibration, NTU		
Turbidity Standard Reagent Number		

Conductivity Meter - Equipment Number: _____ NA ☑

Value of Conductivity Standard, uS	
Meter reading before calibration, uS	
Cell Constant Value	
Conductivity Standard Reagent Number	

Residual Chlorine Meter - Equipment Number: _____ NA ☑

Reagent numbers – Phenylarsine oxide (free & total) R - _____ pH 7 buffer (free) R - _____

pH 4 buffer (total) R- _____ Potassium iodide (total) _____ $KMnO_4$ LCS: S-_____

Circuit check (check one): OK _____ Needs Attention _____

KMnO4 LCS, mg/L Acceptance Limits 0.24 – 0.26mg/L Before_____ After _____

DPD Total Chlorine Reagent Pillows: R- _____

Hach DPD Standard Lot no. _____ Before: STD 1 _____ STD 2 _____ STD 3 _____

After: STD 1 _____ STD 2 _____ STD 3 _____

Cal check acceptance limits: (0.13 – 0.31) (0.75 - 0.95) (1.37 – 1.65)

For all field instruments: Calibration/Confirmation Interval: Prior to each use, but not more than daily
Calibration Environmental Conditions: Room temperature

Note: If equipment calibration fails to meet acceptance limits, the equipment must be taken out of service and tagged for repair.

Enersolv form FLD-030-SOP A rev.5

Enersolv Field Calibration Record

Calibrated By: D. Miller Date: 7-21-16 Time: 1431

pH Meter Calibration - Equipment number: _____

	7.00 pH buffer Acc. Range 7.0 +/- 0.1	10.00pH buffer Acc. Range 10.0+/- 0.1	Acceptance Criteria met?	
Value before calibration, s.u.			Yes	No
Buffer Temp. before calibration, °C				
Value after calibration, s.u.				
Buffer Temp. after calibration, °C				
Reagent Number – Pre-calibration				
Reagent Number – Post-calibration				

pH Meter Post Cal. Date: _____ Time: _____ 4.0 Buffer Cal., if required Date/time: _____ NA ☒

	7.00 pH buffer Acc. range 7.00+/- 0.2	10.0 pH buffer Acc. Range 10.00+/-0.2		4.00 pH buffer Acc. Range 4.00+/-0.1
Value, s.u.				
Buffer Temp. °C				
Reagent Number				Pre Post

Dissolved Oxygen Meter - Equipment Number: 451 550A NA ☐

	Oxygen meter reading	Calibration successful?
Value before calibration, mg/L	7.99	
% Air Saturation / Slope	98.0	
Value after calibration, mg/L	8.10	(Yes) No

Turbidity Meter – Equipment number: 150 NA ☒

	1 NTU	10 NTU
Meter Reading Before Calibration, NTU		
Meter Reading After Calibration, NTU		
Turbidity Standard Reagent Number		

Conductivity Meter - Equipment Number: _____ NA ☒

Value of Conductivity Standard, uS	
Meter reading before calibration, uS	
Cell Constant Value	
Conductivity Standard Reagent Number	

Residual Chlorine Meter - Equipment Number: _____ NA ☐

Reagent numbers – Phenylarsine oxide (free & total) R EA61810 pH 7 buffer (free) R - NA
pH 4 buffer (total) R- R8253 Potassium iodide (total) S-10584 $KMnO_4$ LCS: S-10270
Circuit check (check one): OK ✓ Needs Attention _____
KMnO4 LCS, mg/L Acceptance Limits 0.24 – 0.26mg/L Before .24 After .24

DPD Total Chlorine Reagent Pillows: R- _____
Hach DPD Standard Lot no. _____ Before: STD 1 _____ STD 2 _____ STD 3 _____
After: STD 1 _____ STD 2 _____ STD 3 _____
Cal check acceptance limits: (0.13 – 0.31) (0.75 - 0.95) (1.37 – 1.65)

For all field instruments: Calibration/Confirmation Interval: Prior to each use, but not more than daily
Calibration Environmental Conditions: Room temperature

Note: If equipment calibration fails to meet acceptance limits, the equipment must be taken out of service and tagged for repair.

Appendix II – Arsenic Speciation Certificates of Analysis

eurofins | Frontier Global Sciences

11720 Northcreek Pkwy N, Suite 400
Bothell, WA 98011
425.686.1996 Phone
425.686.3096 Fax

29 January 2018

Xalyn Peek
Enersolv
2220 Beltline Road SW
Decatur, AL 35601

RE: Arsenic Speciation In Wastewater

Enclosed are the analytical results for samples received by Eurofins Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Harrel
Project Manager

eurofins | Frontier Global Sciences

11720 Northcreek Pkwy N, Suite 400
Bothell, WA 98011
425.686.1996 Phone
425.686.3096 Fax

Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DU WWTP Effluent Dissolved	8A00658-01	Water	16-Jan-18 09:08	23-Jan-18 10:10
DU WWTP Effluent Dissolved	8A00658-02	Water	16-Jan-18 09:11	23-Jan-18 10:10
DU WWTP Effluent	8A00658-03	Water	16-Jan-18 09:14	23-Jan-18 10:10

11720 Northcreek Pkwy N, Suite 400
Bothell, WA 98011
425.686.1996 Phone
425.686.3096 Fax

Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peck	29-Jan-18 14:46

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 1/23/2018 10:10:00 AM . The samples were received intact, on-ice within a sealed cooler at -0.2 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Samples were prepared and analyzed for inorganic arsenic speciation by hydride generation cryogenic trapping gas chromatography atomic absorption spectrometry (HG-CT-GC-AAS) in accordance with EPA 1632.

Samples were prepared and analyzed for total recoverable metals by inductively coupled plasma mass spectrometry (ICP-MS) in accordance with EPA 1638 (EFGS-054).

ANALYTICAL AND QUALITY CONTROL ISSUES

Method blanks were prepared for every preparation to assess possible blank contribution from the sample preparation procedure. The method blanks were carried through the entire analytical procedure. All blanks fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

Liquid spikes, certified reference material (CRM) or a quality control samples (QCS) were prepared for every preparation as a measure of accuracy. All liquid spikes, CRMs and/or QCS samples fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries fell within the established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences fell within established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

eurofins | Frontier Global Sciences

Sample Receipt Checklist

Client: Energolv

Date & Time Received: 1/23/18 10:16

Date Labeled: 1/23/18 Labeled By: LM

Project:

Received By: LM

Label Verified By: MP

# of Coolers Received: 1

Samples Arrived By: ✓ Shipping Service ____ Courier ____ Hand ____ Other (Specify: ____)

Coolant: ☐ None/Ambient ☑ Loose Ice ☐ Gel Ice ☐ Dry Ice

Coolant Required: (Y) N

Temp Blank Used: (Y) N for Cooler(s): ____

Notify Project Manager if packages/coolers are received without coolant or with thawed coolant and at a temperature in excess of 6°C. PM notified: Y/N

Cooler Information:	Y/N/NA	Comments
The coolers do not appear to be tampered with:	Y	
Custody Seals are present and intact:	Y	
Custody seals signed:	Y	

TID: 5225	CF: -0.3 °C			Date/time: 1/23/18 10:10	By: LM		
Cooler 1: 0.1	°C	w/ CF: -0.2	°C	Cooler 4:	°C	w/ CF:	°C
Cooler 2:	°C	w/ CF:	°C	Cooler 5:	°C	w/ CF:	°C
Cooler 3:	°C	w/ CF:	°C	Cooler 6:	°C	w/ CF:	°C

Chain of Custody:	Y/N/NA	Comments
Sample ID/Description:	Y	
Date and time of collection:	Y	
Sampled by:	Y	
Preservation type:	Y	
Requested analyses:	Y	
Required signatures:	Y	
Internal COC required:	N	

Sample Condition/Integrity:	Y/N/NA	Comments
Sample containers intact/present:	Y	
Sample labels are present and legible:	Y	
Sample ID on container/bag matches COC:	Y	
Correct sample containers used:	Y	
Samples received within holding times:	Y	
Sample volume sufficient for requested analyses:	Y	
Correct preservative used for requested analyses:	Y	

Anomalies/Non-conformances (attach additional pages if needed):

8A00658

8A 00658

Chain of Custody Record & Laboratory Analysis Request: Air, Water, Sediments, Plant and Animal Tissue, Hydrocarbon & Other Samples

eurofins

Frontier Global Sciences

11720 Northcreek Pkwy N, Suite 400
Bothell, WA 98011
Phone: 425-686-1996
Fax: 425-686-3096
info@frontiergs.com
http://www.frontiergs.com

Page ___ of ___

Client: Enersolu	Contact: Xalyn Peek
Address: 2220 Beltline Rd Decatur, AL 35601	Phone: Fax:
	E-mail:
Project Name:	Contract/PO:
Report To: Xalyn Peek	Invoice To:
Address: 2220 Beltline Rd Decatur, AL 35601	Address:
Phone: 256 350-0884 Fax:	Phone: Fax:
E-mail: xpeek@enersolu.com	E-mail:

EFGS PM: Jeanne Harrel
Date:
TAT (business days): **20** (std) **15 10 5 4 3 2 24 hrs.** (For TAT < 10 days, contact PM. Surcharges apply for expedited TAT)
Saturday delivery? ☐ Y ☐ N (If yes, please contact PM)
EDD ☐ Y ☐ N
QA ☐ Standard ☐ High

No.	Engraved Bottle ID	Sample ID	# of Bottles	Matrix	Date & Time	Sampled By	Field Filtered (Y/N)	Field Preserved: HNO_3 HCl BrCl Other (%)	Dissolved As 200.8	Dissolved As(III)(163)	Total As 200.8				Comments
1		DU WWTP Effluent	1	WW	1/16/18 0908	XP	Y	N/A	X						
2		DU WWTP Effluent	1	WW	1/16/18 0911	XP	Y	HCl		X					
3		DU WWTP Effluent	1	WW	1/16/18 0914	XP	N	N/A			X				
4															
5															
6															
7															
8															
9															
10															
11															
12															

For Laboratory Use Only

COC Seal: Yes	Comments:
Cooler Temp: -0.2°C	
Carrier: Fedex	
VTSR: 10/10	
# of Coolers:	

Matrix Codes:
FW: Fresh Water
WW: Waste Water
SB: Sea and Brackish Water
SS: Soil and Sediment
TS: Plant and Animal Tissue
HC: Hydrocarbons
TR: Trap
OT: Other

Relinquished By:	Received By:	Received By:
Xalyn Peek	[signature]	
Name: Xalyn Peek	Name: Lars Imfeld	Name:
Organization: Enersolu	Organization: EFGS	Organization:
Date & Time: 1/16/18 1000	Date & Time: 1/23/18 10:10	Date & Time:
Tracking number: 7712 8814 2726		

Sample Disposal:
☐ Return (shipping fees may apply)
☐ Standard Disposal – 30 Days after report
☐ Retain for ____ weeks after report (storage fees may apply)

By signing, you declare that you agree with EFGS' terms and conditions, and that you authorize EFGS to perform the specified analyses.

Customer Approval: _____ Date: _____

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Bothell, WA 98011
425.686.1996 Phone
425.686.3096 Fax

Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:46

DU WWTP Effluent Dissolved

8A00658-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-052 Closed Vessel Nitric Oven Digestion											
Arsenic	**0.67**	0.10	0.30	µg/L	1	F801430	24-Jan-18	8A25015	25-Jan-18	EPA 200.8	

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:46

DU WWTP Effluent Dissolved

8A00658-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-022 Preparation for Cryo Speciation of Waters											
Arsenite (as Arsenic)	0.055	0.003	0.010	µg/L	1	F801455	26-Jan-18	8A26007	26-Jan-18	EPA 1632	

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Jeanne Harrel, Project Manager

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:46

DU WWTP Effluent

8A00658-03

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-052 Closed Vessel Nitric Oven Digestion											
Arsenic	0.70	0.10	0.30	µg/L	1	F801430	24-Jan-18	8A25015	25-Jan-18	EPA 200.8	

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:46

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F801455 - EFGS-022 Preparation for Cryo Speciation of Waters											
Blank (F801455-BLK1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	ND	0.003	0.010	µg/L							U
LCS (F801455-BS1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	0.023	0.003	0.010	µg/L	0.030000		77.0	30-170			
LCS Dup (F801455-BSD1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	0.024	0.003	0.010	µg/L	0.030000		81.5	30-170	5.68	35	
Matrix Spike (F801455-MS1)		Source: 8A00660-01			Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	10.55	0.180	0.600	µg/L	6.0000	4.906	94.0	30-170			AS
Matrix Spike Dup (F801455-MSD1)		Source: 8A00660-01			Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	10.16	0.180	0.600	µg/L	6.0000	4.906	87.5	30-170	3.77	35	AS

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:46

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F801430 - EFGS-052 Closed Vessel Nitric Oven Digestion											
Blank (F801430-BLK1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	0.21	0.10	0.30	µg/L							
LCS (F801430-BS1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	48.99	0.50	1.50	µg/L	50.000		98.0	85-115			
LCS Dup (F801430-BSD1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	49.35	0.50	1.50	µg/L	50.000		98.7	85-115	0.724	20	
Matrix Spike (F801430-MS1)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	50.93	0.51	1.52	µg/L	50.000	0.70	100	70-130			
Matrix Spike (F801430-MS2)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	205.7	0.50	1.51	µg/L	205.00	0.70	100	70-130			AS
Matrix Spike Dup (F801430-MSD1)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	52.13	0.51	1.52	µg/L	50.000	0.70	103	70-130	2.33	20	
Matrix Spike Dup (F801430-MSD2)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	206.7	0.50	1.51	µg/L	205.00	0.70	100	70-130	0.495	20	AS

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peck	29-Jan-18 14:46

Notes and Definitions

U	Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.
AS	This MS and/or MSD is an analytical spike and/or an analytical spike duplicate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Jeanne Harrel, Project Manager

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Bothell, WA 98011
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29 January 2018

Xalyn Peek
Enersolv
2220 Beltline Road SW
Decatur, AL 35601

RE: Arsenic Speciation In Wastewater

Enclosed are the analytical results for samples received by Eurofins Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Harrel
Project Manager

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DU WWTP Effluent Dissolved	8A00662-01	Water	19-Jan-18 13:25	23-Jan-18 10:10
DU WWTP Effluent Dissolved	8A00662-02	Water	19-Jan-18 13:28	23-Jan-18 10:10
DU WWTP Effluent	8A00662-03	Water	19-Jan-18 13:31	23-Jan-18 10:10

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peck	29-Jan-18 14:56

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 1/23/2018 10:10:00 AM . The samples were received intact, on-ice within a sealed cooler at -0.2 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Samples were prepared and analyzed for inorganic arsenic speciation by hydride generation cryogenic trapping gas chromatography atomic absorption spectrometry (HG-CT-GC-AAS) in accordance with EPA 1632.

Samples were prepared and analyzed for total recoverable metals by inductively coupled plasma mass spectrometry (ICP-MS) in accordance with EPA 1638 (EFGS-054).

ANALYTICAL AND QUALITY CONTROL ISSUES

Method blanks were prepared for every preparation to assess possible blank contribution from the sample preparation procedure. The method blanks were carried through the entire analytical procedure. All blanks fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

Liquid spikes, certified reference material (CRM) or a quality control samples (QCS) were prepared for every preparation as a measure of accuracy. All liquid spikes, CRMs and/or QCS samples fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries fell within the established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences fell within established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

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Sample Receipt Checklist

Client: Energolv

Date & Time Received: 1/23/18 10:10

Date Labeled: 1/23/18 Labeled By: LM

Project:

Received By: LM

Label Verified By: MP

# of Coolers Received: 1

Samples Arrived By: ✓ Shipping Service ____ Courier ____ Hand ____ Other (Specify: ____)

Coolant: ☐ None/Ambient ☑ Loose Ice ☐ Gel Ice ☐ Dry Ice

Coolant Required: Y/N

Temp Blank Used: Y/N for Cooler(s): ____

Notify Project Manager if packages/coolers are received without coolant or with thawed coolant and at a temperature in excess of 6°C. PM notified: Y/N

Cooler Information:	Y/N/NA	Comments
The coolers do not appear to be tampered with:	Y	
Custody Seals are present and intact:	Y	
Custody seals signed:	Y	

TID: 5225	CF: 0.3 °C			Date/time: 1/23/18 10:10	By: LM		
Cooler 1: 0.1	°C	w/ CF: -0.2	°C	Cooler 4:	°C	w/ CF:	°C
Cooler 2:	°C	w/ CF:	°C	Cooler 5:	°C	w/ CF:	°C
Cooler 3:	°C	w/ CF:	°C	Cooler 6:	°C	w/ CF:	°C

Chain of Custody:	Y/N/NA	Comments
Sample ID/Description:	Y	
Date and time of collection:	Y	
Sampled by:	Y	
Preservation type:	Y	
Requested analyses:	Y	
Required signatures:	Y	
Internal COC required:	N	

Sample Condition/Integrity:	Y/N/NA	Comments
Sample containers intact/present:	Y	
Sample labels are present and legible:	Y	
Sample ID on container/bag matches COC:	Y	
Correct sample containers used:	Y	
Samples received within holding times:	Y	
Sample volume sufficient for requested analyses:	Y	
Correct preservative used for requested analyses:	Y	

Anomalies/Non-conformances (attach additional pages if needed):

8A00662

8A00662

Chain of Custody Record & Laboratory Analysis Request: Air, Water, Sediments, Plant and Animal Tissue, Hydrocarbon & Other Samples

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Frontier Global Sciences

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Bothell, WA 98011
Phone: 425-686-1996
Fax: 425-686-3096
info@frontiergs.com
http://www.frontiergs.com

Page ___ of ___

Client: Enersolv	Contact: Xalyn Peek
Address: 2220 Beltline Rd Decatur, AL 35601	Phone: Fax:
	E-mail:
Project Name:	Contract/PO:
Report To: Xalyn Peek	Invoice To:
Address: 2220 Beltline Rd Decatur, AL 35601	Address:
Phone: 256 350-0846 Fax:	Phone: Fax:
E-mail: xpeek@enersolv.com	E-mail:

EFGS PM: Jeanne Hamel
Date:
TAT (business days): **20** (std) **15 10 5 4 3 2 24 hrs.** (For TAT < 10 days, contact PM. Surcharges apply for expedited TAT)
Saturday delivery? ☐ Y ☐ N (If yes, please contact PM)
EDD ☐ Y ☐ N
QA ☐ Standard ☐ High

No.	Engraved Bottle ID	Sample ID	# of Bottles	Matrix	Date & Time	Sampled By	Field Filtered (Y/N)	Field Preserved: HNO_3 HCl BrCl Other (%)	Dissolved As 200.8	Dissolved As(III) 1632	Total As 200.8				Comments
1		DU WWTP Effluent	1	WW	1/19/18 1325	XP	Y	N/A	X						
2		DU WWTP Effluent	1	WW	1/19/18 1328	XP	Y	HCl		X					
3		DU WWTP Effluent	1	WW	1/19/18 1331	XP	N	N/A			X				
4															
5															
6															
7															
8															
9															
10															
11															
12															

For Laboratory Use Only

COC Seal: Yes
Cooler Temp: -0.2°C
Carrier: FedEx
VTSR: 1410
# of Coolers:
Comments:

Matrix Codes:
FW: Fresh Water
WW: Waste Water
SB: Sea and Brackish Water
SS: Soil and Sediment
TS: Plant and Animal Tissue
HC: Hydrocarbons
TR: Trap
OT: Other

Relinquished By:	Received By:	Received By:
Name: Xalyn Peek	Name: Leo Mittel	Name:
Organization: Enersolv	Organization: EFGS	Organization:
Date & Time: 1/22/18 1000	Date & Time: 1/23/18 1010	Date & Time:

Tracking number: 771288142726

Sample Disposal:
☐ Return (shipping fees may apply)
☐ Standard Disposal – 30 Days after report
☐ Retain for ____ weeks after report (storage fees may apply)

By signing, you declare that you agree with EFGS' terms and conditions, and that you authorize EFGS to perform the specified analyses.

Customer Approval: _____ Date: _____

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:56

DU WWTP Effluent Dissolved

8A00662-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-052 Closed Vessel Nitric Oven Digestion											
Arsenic	0.70	0.10	0.30	µg/L	1	F801430	24-Jan-18	8A25015	25-Jan-18	EPA 200.8	

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Jeanne Harrel, Project Manager

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peck	29-Jan-18 14:56

DU WWTP Effluent Dissolved

8A00662-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-022 Preparation for Cryo Speciation of Waters											
Arsenite (as Arsenic)	0.051	0.003	0.010	µg/L	1	F801455	26-Jan-18	8A26007	26-Jan-18	EPA 1632	

Eurofins Frontier Global Sciences, Inc.

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:56

DU WWTP Effluent

8A00662-03

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-052 Closed Vessel Nitric Oven Digestion											
Arsenic	**0.71**	0.10	0.30	µg/L	1	F801430	24-Jan-18	8A25015	25-Jan-18	EPA 200.8	

Eurofins Frontier Global Sciences, Inc.

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:56

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F801455 - EFGS-022 Preparation for Cryo Speciation of Waters											
Blank (F801455-BLK1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	ND	0.003	0.010	µg/L							U
LCS (F801455-BS1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	0.023	0.003	0.010	µg/L	0.030000		77.0	30-170			
LCS Dup (F801455-BSD1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	0.024	0.003	0.010	µg/L	0.030000		81.5	30-170	5.68	35	
Matrix Spike (F801455-MS1)		Source: 8A00660-01			Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	10.55	0.180	0.600	µg/L	6.0000	4.906	94.0	30-170			AS
Matrix Spike Dup (F801455-MSD1)		Source: 8A00660-01			Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	10.16	0.180	0.600	µg/L	6.0000	4.906	87.5	30-170	3.77	35	AS

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peck	29-Jan-18 14:56

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F801430 - EFGS-052 Closed Vessel Nitric Oven Digestion											
Blank (F801430-BLK1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	0.21	0.10	0.30	µg/L							
LCS (F801430-BS1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	48.99	0.50	1.50	µg/L	50.000		98.0	85-115			
LCS Dup (F801430-BSD1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	49.35	0.50	1.50	µg/L	50.000		98.7	85-115	0.724	20	
Matrix Spike (F801430-MS1)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	50.93	0.51	1.52	µg/L	50.000	0.70	100	70-130			
Matrix Spike (F801430-MS2)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	205.7	0.50	1.51	µg/L	205.00	0.70	100	70-130			AS
Matrix Spike Dup (F801430-MSD1)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	52.13	0.51	1.52	µg/L	50.000	0.70	103	70-130	2.33	20	
Matrix Spike Dup (F801430-MSD2)		**Source: 8A00658-03**			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	206.7	0.50	1.51	µg/L	205.00	0.70	100	70-130	0.495	20	AS

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 14:56

Notes and Definitions

U	Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.
AS	This MS and/or MSD is an analytical spike and/or an analytical spike duplicate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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29 January 2018

Xalyn Peek
Enersolv
2220 Beltline Road SW
Decatur, AL 35601

RE: Arsenic Speciation In Wastewater

Enclosed are the analytical results for samples received by Eurofins Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Harrel
Project Manager

eurofins | Frontier Global Sciences

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425.686.1996 Phone
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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 15:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DU WWTP Effluent Dissolved	8A00663-01	Water	22-Jan-18 08:30	23-Jan-18 10:10
DU WWTP Effluent Dissolved	8A00663-02	Water	22-Jan-18 08:33	23-Jan-18 10:10
DU WWTP Effluent	8A00663-03	Water	22-Jan-18 08:37	23-Jan-18 10:10

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Decatur AL, 35601	Project Manager: Xalyn Peck	29-Jan-18 15:07

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 1/23/2018 10:10:00 AM . The samples were received intact, on-ice within a sealed cooler at -0.2 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Samples were prepared and analyzed for inorganic arsenic speciation by hydride generation cryogenic trapping gas chromatography atomic absorption spectrometry (HG-CT-GC-AAS) in accordance with EPA 1632.

Samples were prepared and analyzed for total recoverable metals by inductively coupled plasma mass spectrometry (ICP-MS) in accordance with EPA 1638 (EFGS-054).

ANALYTICAL AND QUALITY CONTROL ISSUES

Method blanks were prepared for every preparation to assess possible blank contribution from the sample preparation procedure. The method blanks were carried through the entire analytical procedure. All blanks fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

Liquid spikes, certified reference material (CRM) or a quality control samples (QCS) were prepared for every preparation as a measure of accuracy. All liquid spikes, CRMs and/or QCS samples fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries fell within the established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences fell within established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

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Sample Receipt Checklist

Client: Energolv

Date & Time Received: 1/23/18 10:10

Date Labeled: 1/23/18 Labeled By: LM

Project:

Received By: LM

Label Verified By: MP

# of Coolers Received: 1

Samples Arrived By: ✓ Shipping Service ____ Courier ____ Hand ____ Other (Specify: ____)

Coolant: ☐ None/Ambient ☑ Loose Ice ☐ Gel Ice ☐ Dry Ice

Coolant Required: (Y) N

Temp Blank Used: (Y) N for Cooler(s): ____

Notify Project Manager if packages/coolers are received without coolant or with thawed coolant and at a temperature in excess of 6°C. PM notified: Y/N

Cooler Information:	Y/N/NA	Comments
The coolers do not appear to be tampered with:	Y	
Custody Seals are present and intact:	Y	
Custody seals signed:	Y	

TID: 5225	CF: -0.3 °C			Date/time: 1/23/18 10:10	By: LM		
Cooler 1: 0.1	°C	w/ CF: -0.2	°C	Cooler 4:	°C	w/ CF:	°C
Cooler 2:	°C	w/ CF:	°C	Cooler 5:	°C	w/ CF:	°C
Cooler 3:	°C	w/ CF:	°C	Cooler 6:	°C	w/ CF:	°C

Chain of Custody:	Y/N/NA	Comments
Sample ID/Description:	Y	
Date and time of collection:	Y	
Sampled by:	Y	
Preservation type:	Y	
Requested analyses:	Y	
Required signatures:	Y	
Internal COC required:	N	

Sample Condition/Integrity:	Y/N/NA	Comments
Sample containers intact/present:	Y	
Sample labels are present and legible:	Y	
Sample ID on container/bag matches COC:	Y	
Correct sample containers used:	Y	
Samples received within holding times:	Y	
Sample volume sufficient for requested analyses:	Y	
Correct preservative used for requested analyses:	Y	

Anomalies/Non-conformances (attach additional pages if needed):

8A00663

8A00663

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Chain of Custody Record & Laboratory Analysis Request: Air, Water, Sediments, Plant and Animal Tissue, Hydrocarbon & Other Samples

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info@frontiergs.com
http://www.frontiergs.com

Page ___ of ___

Client: Enersolv	Contact: Xalyn Peek
Address: 2220 Beltline Rd Decatur, AL 35601	Phone: Fax:
	E-mail:
Project Name:	Contract/PO:
Report To: Xalyn Peek	Invoice To:
Address: 2220 Beltline Rd Decatur, AL 35601	Address:
Phone: 256 350-0845 Fax:	Phone: Fax:
E-mail: xpeek@enersolv.com	E-mail:

EFGS PM: Joanne Harrel
Date:
TAT (business days): **20** (std) **15 10 5 4 3 2 24 hrs.** (For TAT < 10 days, contact PM. Surcharges apply for expedited TAT)
Saturday delivery? ☐ Y ☐ N (If yes, please contact PM)
EDD ☐ Y ☐ N
QA ☐ Standard ☐ High

No.	Engraved Bottle ID	Sample ID	# of Bottles	Matrix	Date & Time	Sampled By	Field Filtered (Y/N)	Field Preserved: HNO_3 HCl BrCl Other (%)	Dissolved As 200.8	Dissolved As(III) 1632	Total As 200.8				Comments
1		DU WWTP Effluent	1	WW	1/22/18 0830	XP	Y	N/A	X						
2		DU WWTP Effluent	1	WW	1/22/18 0833	XP	Y	HCl		X					
3		DU WWTP Effluent	1	WW	1/22/18 0837	XP	N	N/A			X				
4															
5															
6															
7															
8															
9															
10															
11															
12															

For Laboratory Use Only

COC Seal: Y-S
Cooler Temp: -0.2°C
Carrier: FedEx
VTSR: 10:10
# of Coolers:
Comments:

Matrix Codes:
FW: Fresh Water
WW: Waste Water
SB: Sea and Brackish Water
SS: Soil and Sediment
TS: Plant and Animal Tissue
HC: Hydrocarbons
TR: Trap
OT: Other

Relinquished By:	Received By:	Received By:
Name: Xalyn Peek	Name: Lan Nutter	Name:
Organization: Enersolv	Organization: EFGS	Organization:
Date & Time: 1/22/18 1000	Date & Time: 1/23/18 10:40	Date & Time:

Tracking number: 771288142726

Sample Disposal:
☐ Return (shipping fees may apply)
☐ Standard Disposal – 30 Days after report
☐ Retain for ____ weeks after report (storage fees may apply)

By signing, you declare that you agree with EFGS' terms and conditions, and that you authorize EFGS to perform the specified analyses.

Customer Approval: _____ Date: _____

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 15:07

DU WWTP Effluent Dissolved

8A00663-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-052 Closed Vessel Nitric Oven Digestion											
Arsenic	0.78	0.10	0.30	µg/L	1	F801430	24-Jan-18	8A25015	25-Jan-18	EPA 200.8	QR-11

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beldine Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peck	29-Jan-18 15:07

DU WWTP Effluent Dissolved

8A00663-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-022 Preparation for Cryo Speciation of Waters											
Arsenite (as Arsenic)	0.082	0.003	0.010	µg/L	1	F801455	26-Jan-18	8A26007	26-Jan-18	EPA 1632	

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 15:07

DU WWTP Effluent

8A00663-03

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-052 Closed Vessel Nitric Oven Digestion											
Arsenic	0.76	0.10	0.30	µg/L	1	F801430	24-Jan-18	8A25015	25-Jan-18	EPA 200.8	QR-11

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Enersolv	Project: Arsenic Speciation In Wastewater	
2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	**Reported:**
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 15:07

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F801455 - EFGS-022 Preparation for Cryo Speciation of Waters											
Blank (F801455-BLK1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	ND	0.003	0.010	µg/L							U
LCS (F801455-BS1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	0.023	0.003	0.010	µg/L	0.030000		77.0	30-170			
LCS Dup (F801455-BSD1)					Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	0.024	0.003	0.010	µg/L	0.030000		81.5	30-170	5.68	35	
Matrix Spike (F801455-MS1)		**Source: 8A00660-01**			Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	10.55	0.180	0.600	µg/L	6.0000	4.906	94.0	30-170			AS
Matrix Spike Dup (F801455-MSD1)		**Source: 8A00660-01**			Prepared & Analyzed: 26-Jan-18						
Arsenite (as Arsenic)	10.16	0.180	0.600	µg/L	6.0000	4.906	87.5	30-170	3.77	35	AS

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2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jan-18 15:07

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F801430 - EFGS-052 Closed Vessel Nitric Oven Digestion											
Blank (F801430-BLK1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	0.21	0.10	0.30	µg/L							
LCS (F801430-BS1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	48.99	0.50	1.50	µg/L	50.000		98.0	85-115			
LCS Dup (F801430-BSD1)					Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	49.35	0.50	1.50	µg/L	50.000		98.7	85-115	0.724	20	
Matrix Spike (F801430-MS1)		Source: 8A00658-03			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	50.93	0.51	1.52	µg/L	50.000	0.70	100	70-130			
Matrix Spike (F801430-MS2)		Source: 8A00658-03			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	205.7	0.50	1.51	µg/L	205.00	0.70	100	70-130			AS
Matrix Spike Dup (F801430-MSD1)		Source: 8A00658-03			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	52.13	0.51	1.52	µg/L	50.000	0.70	103	70-130	2.33	20	
Matrix Spike Dup (F801430-MSD2)		Source: 8A00658-03			Prepared: 24-Jan-18 Analyzed: 25-Jan-18						
Arsenic	206.7	0.50	1.51	µg/L	205.00	0.70	100	70-130	0.495	20	AS

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2220 Beltline Road SW	Project Number: Arsenic Speciation In Wastewater	Reported:
Decatur AL, 35601	Project Manager: Xalyn Peek	29-Jun-18 15:07

Notes and Definitions

U	Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.
QR-11	Dissolved or acid soluble concentration is greater than total concentration. Sample concentrations were less than 10 times the reporting limit and the difference between the values was less than 2 times the reporting limit.
AS	This MS and/or MSD is an analytical spike and/or an analytical spike duplicate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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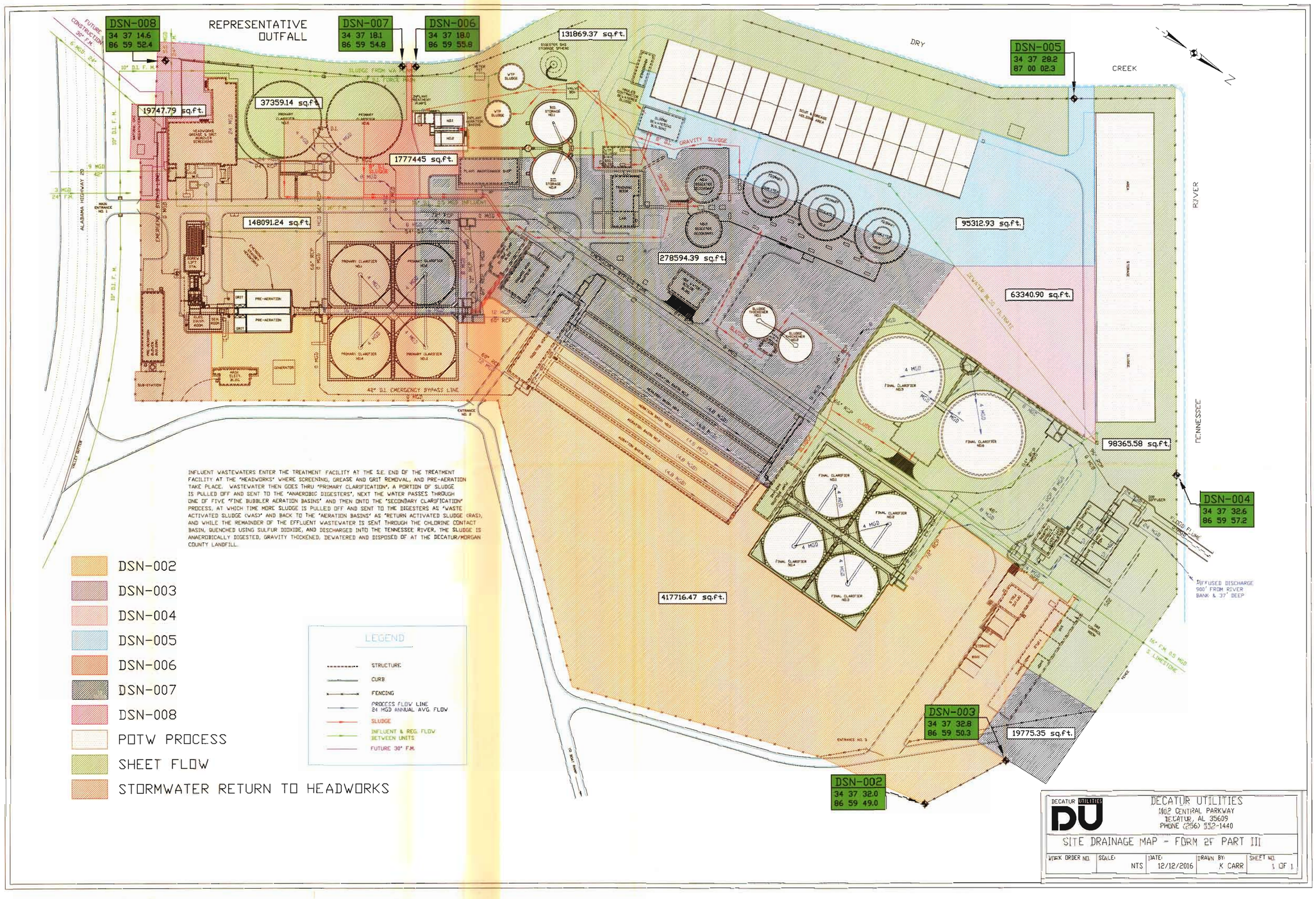
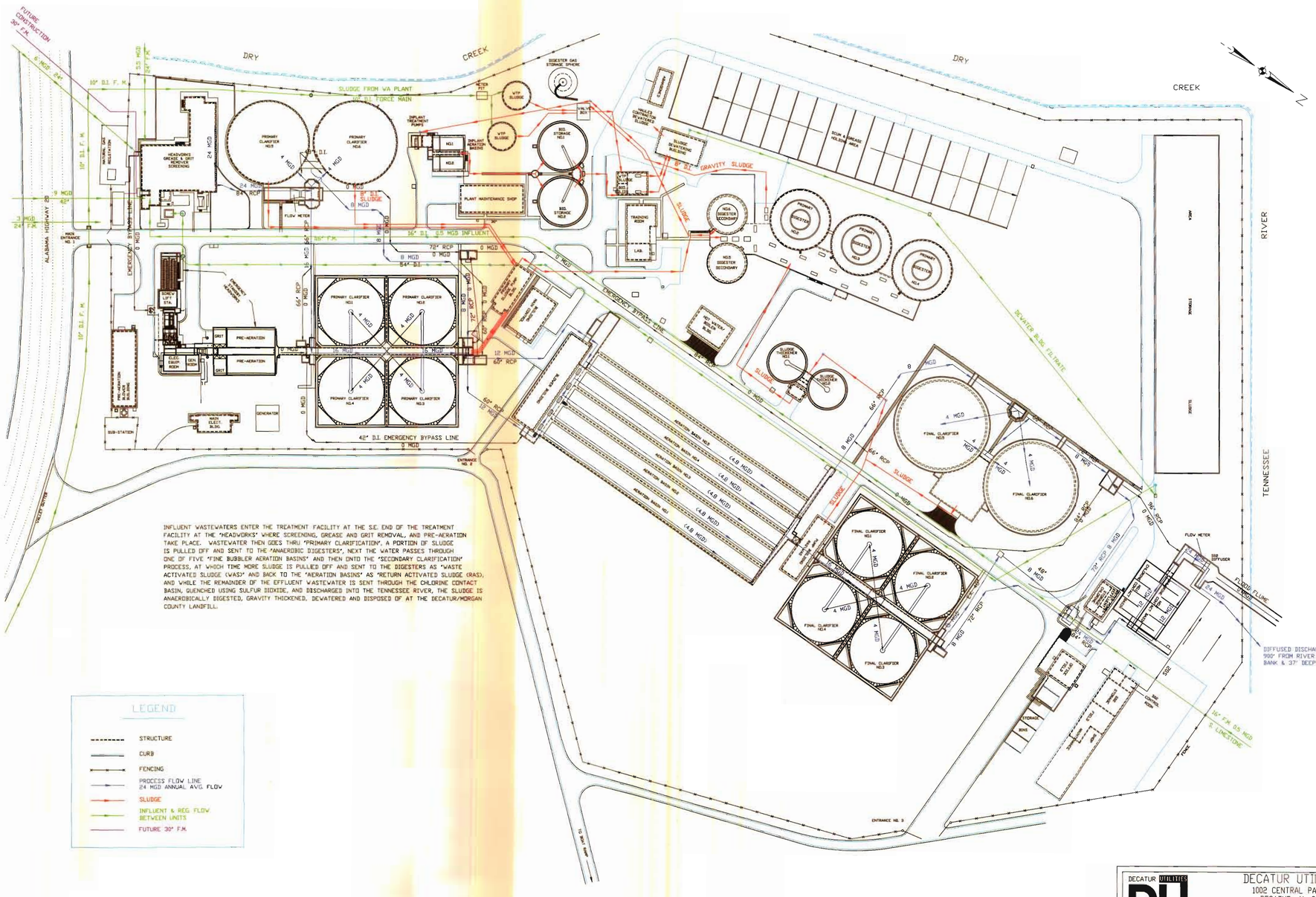


DECATUR UTILITIES
1002 CENTRAL PARKWAY
DECATUR, AL 35609
PHONE (256) 552-1440

SITE DRAINAGE MAP - FORM 2F PART III

WORK ORDER NO.	SCALE:	DATE:	DRAWN BY:	SHEET NO.
	NTS	12/12/2016	K CARR	1 OF 1



INFLUENT WASTEWATERS ENTER THE TREATMENT FACILITY AT THE S.E. END OF THE TREATMENT FACILITY AT THE 'HEADWORKS' WHERE SCREENING, GREASE AND GRIT REMOVAL, AND PRE-AERATION TAKE PLACE. WASTEWATER THEN GOES THRU 'PRIMARY CLARIFICATION', A PORTION OF SLUDGE IS PULLED OFF AND SENT TO THE 'ANAEROBIC DIGESTERS', NEXT THE WATER PASSES THROUGH ONE OF FIVE 'FINE BUBBLER AERATION BASINS' AND THEN ONTO THE 'SECONDARY CLARIFICATION' PROCESS, AT WHICH TIME MORE SLUDGE IS PULLED OFF AND SENT TO THE DIGESTERS AS 'WASTE ACTIVATED SLUDGE (WAS)' AND BACK TO THE 'AERATION BASINS' AS 'RETURN ACTIVATED SLUDGE (RAS), AND WHILE THE REMAINDER OF THE EFFLUENT WASTEWATER IS SENT THROUGH THE CHLORINE CONTACT BASIN, QUENCHED USING SULFUR DIOXIDE, AND DISCHARGED INTO THE TENNESSEE RIVER, THE SLUDGE IS ANAEROBICALLY DIGESTED, GRAVITY THICKENED, DEWATERED AND DISPOSED OF AT THE DECATUR/MORGAN COUNTY LANDFILL.

LEGEND

- STRUCTURE
- CURB
- FENCING
- PROCESS FLOW LINE 24 MGD ANNUAL AVG. FLOW
- SLUDGE
- INFLUENT & REG. FLOW BETWEEN UNITS
- FUTURE 30" F.M.

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DECATUR, AL 35609
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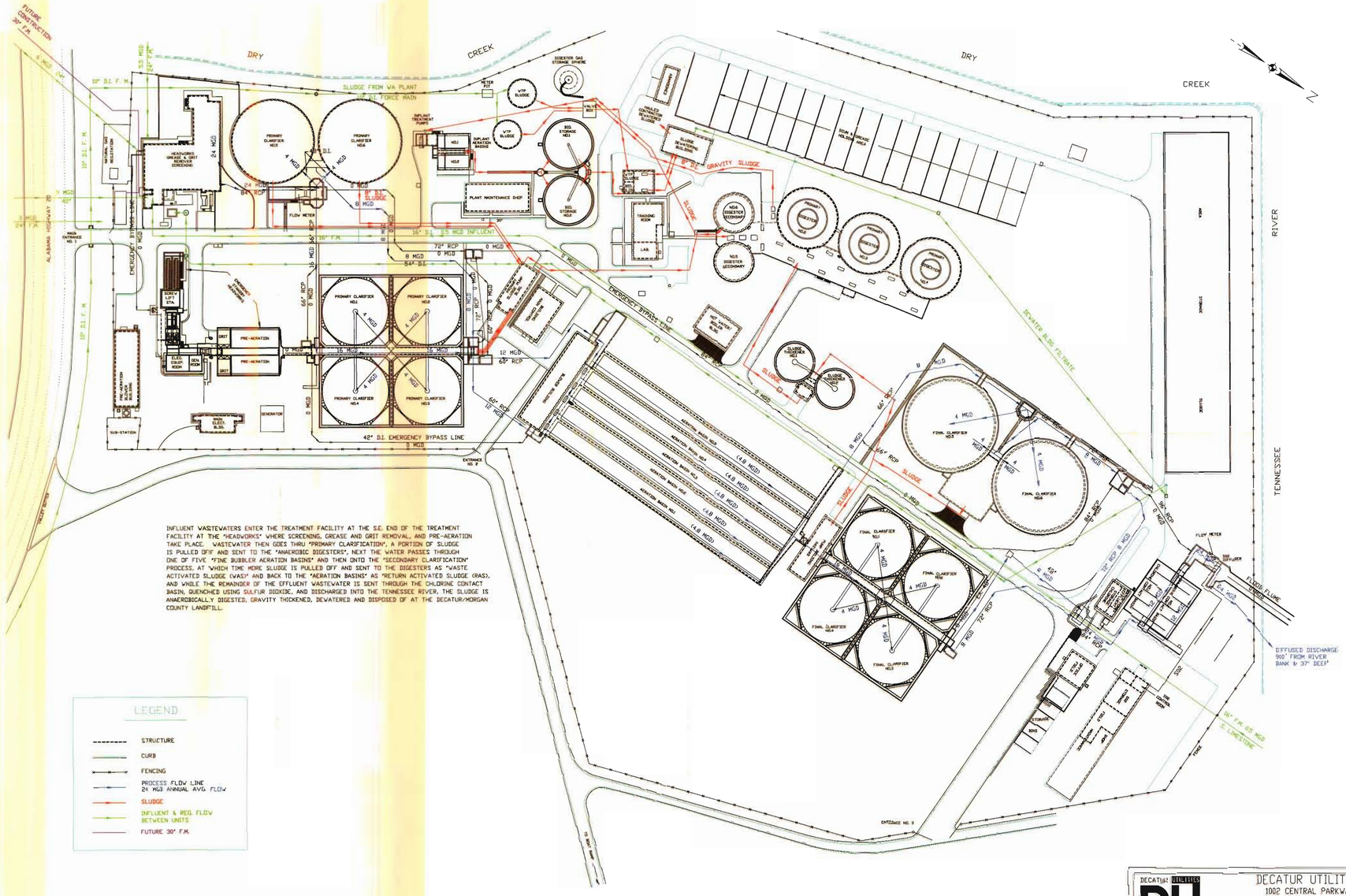
PROCESS FLOW DIAGRAM - FORM 2A PART B.3

WORK ORDER NO.	SCALE:	DATE:	DRAWN BY:	SHEET NO.
	NTS	12/7/2016	K CARR	1 OF 1



INFLUENT WASTEWATERS ENTER THE TREATMENT FACILITY AT THE S.E. END OF THE TREATMENT FACILITY AT THE "HEADWORKS" WHERE SCREENING, GREASE AND GRIT REMOVAL, AND PRE-AERATION TAKE PLACE. WASTEWATER THEN GOES THRU "PRIMARY CLARIFICATION", A PORTION OF SLUDGE IS PULLED OFF AND SENT TO THE "ANAEROBIC DIGESTERS", NEXT THE WATER PASSES THROUGH ONE OF FIVE "FINE BUBBLER AERATION BASINS" AND THEN ONTO THE "SECONDARY CLARIFICATION" PROCESS, AT WHICH TIME MORE SLUDGE IS PULLED OFF AND SENT TO THE DIGESTERS AS "WASTE ACTIVATED SLUDGE (WAS)" AND BACK TO THE "AERATION BASINS" AS "RETURN ACTIVATED SLUDGE (RAS), AND WHILE THE REMAINDER OF THE EFFLUENT WASTEWATER IS SENT THROUGH THE CHLORINE CONTACT BASIN, QUENCHED USING SULFUR DIOXIDE, AND DISCHARGED INTO THE TENNESSEE RIVER. THE SLUDGE IS ANAEROBICALLY DIGESTED, GRAVITY THICKENED, DEVATERED AND DISPOSED OF AT THE DECATUR/MORGAN COUNTY LANDFILL.

LEGEND

- STRUCTURE
- CURB
- FENCING
- PROCESS FLOW LINE 24 MGD ANNUAL AVG. FLOW
- SLUDGE
- INFLUENT & REG. FLOW BETWEEN UNITS
- FUTURE 30" F.M.

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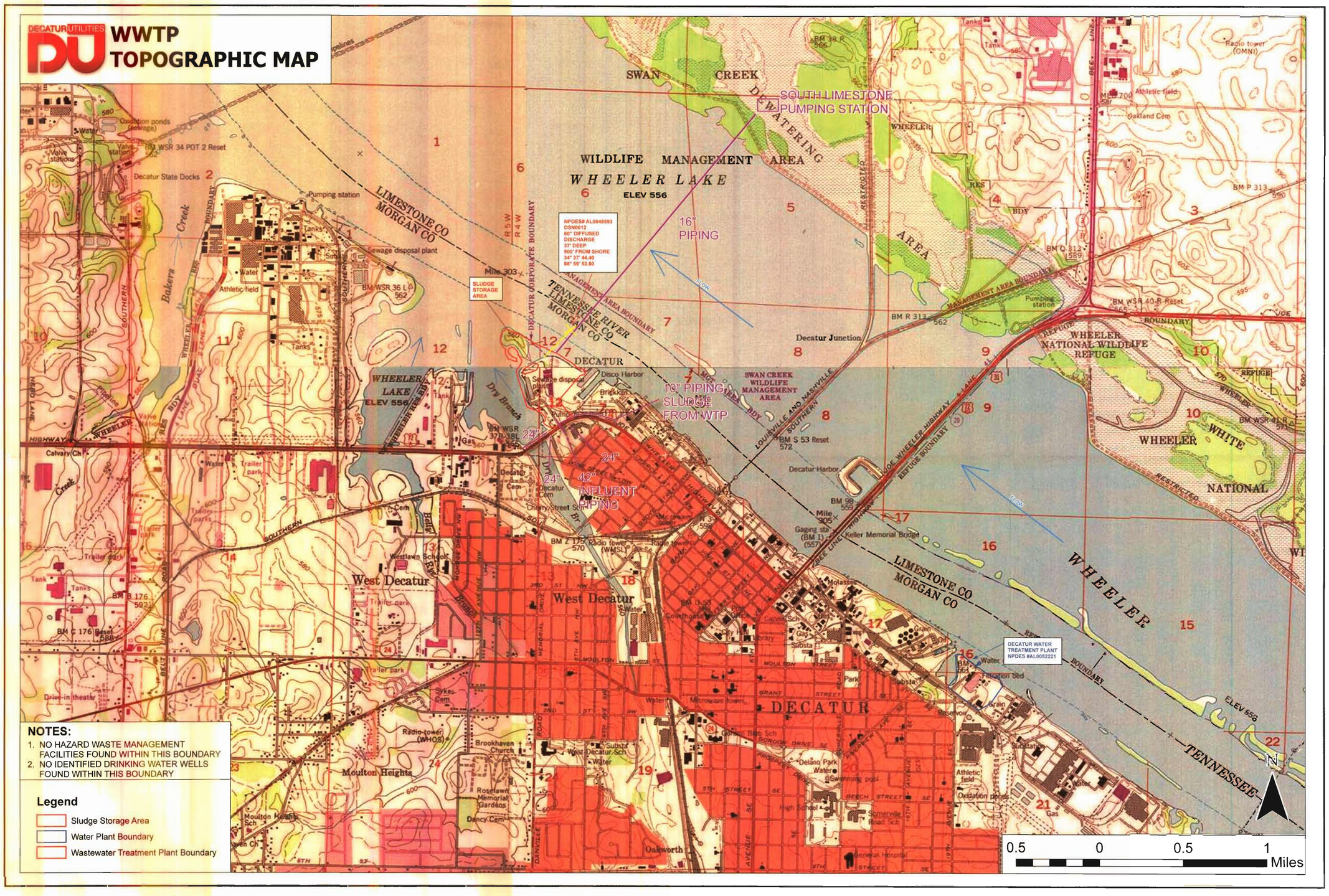
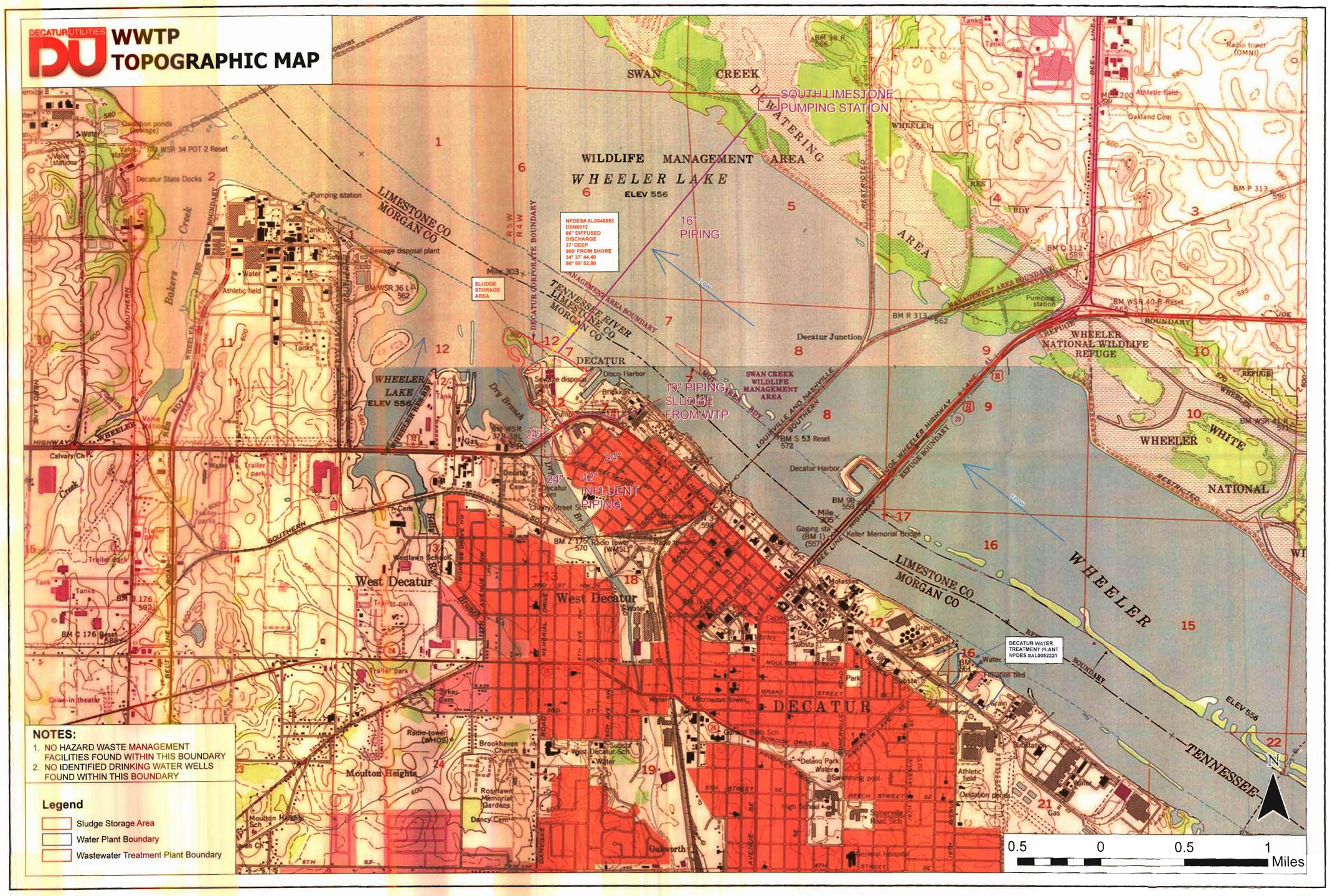
PROCESS FLOW DIAGRAM - FORM 2A PART B.3

WORK ORDER NO.	SCALE:	DATE:	DRAWN BY:	SHEET NO.
	NTS	12/7/2016	K CARR	1 OF 1


DECATUR UTILITIES
WWTP
TOPOGRAPHIC MAP
SWAN CREEK
DEWATERING
AREA
SOUTH LIMESTONE
PUMPING STATION
WILDLIFE MANAGEMENT AREA
WHEELER LAKE
ELEV 556
16"
PIPING
NPDES# AL0048593
DSN0012
60" DIFFUSED
DISCHARGE
37' DEEP
900' FROM SHORE
34° 37' 44.40
86° 59' 52.80
SLUDGE
STORAGE
AREA
LIMESTONE CO
MORGAN CO
TENNESSEE RIVER
DECATUR
10" PIPING
SLUDGE
FROM WTP
24"
42"
INFLUENT
PIPING
WHEELER
LAKE
ELEV 556
SWAN CREEK
WILDLIFE
MANAGEMENT
AREA
WHEELER
NATIONAL WILDLIFE
REFUGE
WHEELER
WHITE
NATIONAL
WHEELER
LIMESTONE CO
MORGAN CO
DECATUR WATER
TREATMENT PLANT
NPDES #AL0052221
DECATUR
West Decatur
Moulton Heights
TENNESSEE
0.5 0 0.5 1
Miles
NOTES:
1. NO HAZARD WASTE MANAGEMENT FACILITIES FOUND WITHIN THIS BOUNDARY
2. NO IDENTIFIED DRINKING WATER WELLS FOUND WITHIN THIS BOUNDARY
Legend
Sludge Storage Area
Water Plant Boundary
Wastewater Treatment Plant Boundary


DECATUR UTILITIES
WWTP
TOPOGRAPHIC MAP
SOUTH LIMESTONE PUMPING STATION
SWAN CREEK DEWATERING AREA
WILDLIFE MANAGEMENT AREA
WHEELER LAKE
ELEV 556
16" PIPING
NPDES# AL0048593
DSN0012
60" DIFFUSED DISCHARGE
37' DEEP
900' FROM SHORE
34° 37' 44.40
86° 59' 52.80
SLUDGE STORAGE AREA
10" PIPING SLUDGE FROM WTP
24" 42" INFLUENT PIPING
LIMESTONE CO
MORGAN CO
TENNESSEE RIVER
DECATUR
West Decatur
WHEELER NATIONAL WILDLIFE REFUGE
WHEELER WHITE NATIONAL
SWAN CREEK WILDLIFE MANAGEMENT AREA
DECATUR WATER TREATMENT PLANT NPDES #AL0052221
Moulton Heights
Oakworth
NOTES:
1. NO HAZARD WASTE MANAGEMENT FACILITIES FOUND WITHIN THIS BOUNDARY
2. NO IDENTIFIED DRINKING WATER WELLS FOUND WITHIN THIS BOUNDARY
Legend
Sludge Storage Area
Water Plant Boundary
Wastewater Treatment Plant Boundary
0.5 0 0.5 1 Miles
N