



Alabama Department of Environmental Management  
adem.alabama.gov

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(334) 271-7700 ■ FAX (334) 271-7950

SEPTEMBER 11, 2024

Braden Preston  
Owner  
StructCon, LLC  
17739 Hampton Cove Way  
Athens, AL 35611

RE: Draft Permit  
NPDES Permit No. AL0084495  
Browns Ferry Marina & Development WWTP  
Limestone County, Alabama

Dear Mr. Preston:

Transmitted herein is a draft of the referenced permit.

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

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

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

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

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

system allows facilities to submit required compliance reports or other information to the Department. The Department has used the E2 User account information to set up a similar User Profile in AEPACS based on the following criteria:

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

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

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

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

If you have questions regarding this permit or monitoring requirements, please contact Sandra Lee at [slee@adem.alabama.gov](mailto:slee@adem.alabama.gov) or (334) 274-4223.

Sincerely,



Sandra Lee  
Municipal Section  
Water Division

Enclosure

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



# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

**PERMITTEE:** STRUCTCON, LLC  
17739 HAMPTON COVE WAY  
ATHENS, AL 35611

**FACILITY LOCATION:** BROWNS FERRY MARINA & DEVELOPMENT WWTP 0.1 MGD  
NUCLEAR PLANT ROAD 0.2 MGD  
ATHENS, ALABAMA 0.3 MGD  
LIMESTONE COUNTY 0.4 MGD  
0.5 MGD

**PERMIT NUMBER:** AL0084495

**RECEIVING WATERS:** TENNESSEE RIVER (WHEELER LAKE)

*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

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Alabama Department of Environmental Management

## TABLE OF CONTENTS

<b>PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS</b> .....	<b>1</b>
A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS .....	1
1. DSN 0011: Municipal Wastewater - 0.1 MGD Treatment Facility.....	1
2. DSN 0012: Municipal Wastewater - 0.2 MGD Treatment Facility.....	3
3. DSN 0013: Municipal Wastewater - 0.3 MGD Treatment Facility.....	5
4. DSN 0014: Municipal Wastewater - 0.4 MGD Treatment Facility.....	7
5. DSN 0015: Municipal Wastewater - 0.5 MGD Treatment Facility.....	9
B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS .....	11
1. Representative Sampling.....	11
2. Measurement Frequency .....	11
3. Test Procedures .....	11
4. Recording of Results .....	12
5. Records Retention and Production .....	12
6. Reduction, Suspension or Termination of Monitoring and/or Reporting.....	12
7. Monitoring Equipment and Instrumentation .....	12
C. DISCHARGE REPORTING REQUIREMENTS .....	12
1. Reporting of Monitoring Requirements .....	12
2. Noncompliance Notifications and Reports.....	14
D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS .....	16
1. Anticipated Noncompliance.....	16
2. Termination of Discharge .....	16
3. Updating Information.....	16
4. Duty to Provide Information .....	16
E. SCHEDULE OF COMPLIANCE .....	16
1. Compliance with discharge limits.....	16
2. Schedule.....	16
<b>PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES</b> .....	<b>17</b>
A. OPERATIONAL AND MANAGEMENT REQUIREMENTS .....	17
1. Facilities Operation and Maintenance.....	17
2. Best Management Practices .....	17
3. Certified Operator .....	17
B. OTHER RESPONSIBILITIES.....	17
1. Duty to Mitigate Adverse Impacts .....	17
2. Right of Entry and Inspection .....	17
C. BYPASS AND UPSET.....	17
1. Bypass .....	17
2. Upset .....	18
D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES .....	18
1. Duty to Comply.....	18
2. Removed Substances.....	19
3. Loss or Failure of Treatment Facilities .....	19
4. Compliance with Statutes and Rules .....	19
E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE.....	19
1. Duty to Reapply or Notify of Intent to Cease Discharge .....	19
2. Change in Discharge .....	19
3. Transfer of Permit .....	19
4. Permit Modification and Revocation .....	20

5. Termination.....	20
6. Suspension.....	21
7. Stay.....	21
F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION.....	21
G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS.....	21
H. PROHIBITIONS.....	21
<b>PART III: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS.....</b>	<b>23</b>
A. CIVIL AND CRIMINAL LIABILITY.....	23
1. Tampering.....	23
2. False Statements.....	23
3. Permit Enforcement.....	23
4. Relief from Liability.....	23
B. OIL AND HAZARDOUS SUBSTANCE LIABILITY.....	23
C. PROPERTY AND OTHER RIGHTS.....	23
D. AVAILABILITY OF REPORTS.....	24
E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES.....	24
F. COMPLIANCE WITH WATER QUALITY STANDARDS.....	24
G. GROUNDWATER.....	24
H. DEFINITIONS.....	25
I. SEVERABILITY.....	27
<b>PART IV: SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS.....</b>	<b>28</b>
A. SLUDGE MANAGEMENT PRACTICES.....	28
1. Applicability.....	28
2. Submitting Information.....	28
3. Reopener or Modification.....	28
B. EFFLUENT TOXICITY TESTING REOPENER.....	28
C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS.....	28
D. PLANT CLASSIFICATION.....	29
E. SANITARY SEWER OVERFLOW RESPONSE PLAN.....	29

**PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS****A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS****1. DSN 0011: Municipal Wastewater - 0.1 MGD Treatment Facility**

During the period beginning on the effective date of this permit and lasting through completion of the facility expansion to 0.2 MGD, 0.3 MGD, 0.4 MGD, or 0.5 MGD, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
				(Report)						
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	*****	mg/l	2X Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	25.0 Monthly Average	37.5 Weekly Average	lbs/day	*****	30.0 Monthly Average	45.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	16.6 Monthly Average	25.0 Weekly Average	lbs/day	*****	20.0 Monthly Average	30.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	0.076 Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Continuous	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.

**DSN 0011 (Continued): Municipal Wastewater - 0.1 MGD Treatment Facility**

During the period beginning on the effective date of this permit and lasting through completion of the facility expansion to 0.2 MGD, 0.3 MGD, 0.4 MGD, or 0.5 MGD, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Chlorine, Total Residual (50060) See notes (3) Effluent Gross Value	*****	*****	*****	*****	*****	1.0 Maximum Daily	mg/l	2X Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	*****	*****	*****	*****	126 Monthly Average	235 Maximum Daily	col/100mL	2X Weekly	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	20.8 Monthly Average	31.2 Weekly Average	lbs/day	*****	25.0 Monthly Average	37.5 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.



## 2. DSN 0012: Municipal Wastewater - 0.2 MGD Treatment Facility

During the period beginning with the facility expansion to 0.2 MGD and lasting through the completion of the facility expansion to 0.3 MGD, 0.4 MGD or 0.5 MGD, 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	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
				(Report)						
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	(Report) Minimum Daily	****	****	mg/l	2X Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	50.0 Monthly Average	75.0 Weekly Average	lbs/day	****	30.0 Monthly Average	45.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	33.3 Monthly Average	50.0 Weekly Average	lbs/day	****	20.0 Monthly Average	30.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	0.076 Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Daily	Continuous	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.



**DSN 0012 (Continued): Municipal Wastewater - 0.2 MGD Treatment Facility**

During the period beginning with the facility expansion to 0.2 MGD and lasting through the completion of the facility expansion to 0.3 MGD, 0.4 MGD or 0.5 MGD, 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	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Chlorine, Total Residual (50060) See notes (3) Effluent Gross Value	*****	*****	*****	*****	*****	1.0 Maximum Daily	mg/l	2X Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	*****	*****	*****	*****	126 Monthly Average	235 Maximum Daily	col/100mL	2X Weekly	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	41.7 Monthly Average	62.5 Weekly Average	lbs/day	*****	25.0 Monthly Average	37.5 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.

### 3. DSN 0013: Municipal Wastewater - 0.3 MGD Treatment Facility

During the period beginning with the facility expansion to 0.3 MGD and lasting through the completion of the facility expansion to 0.4 MGD or 0.5 MGD, the Permittee is authorized to discharge from Outfall 0013, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
				(Report)						
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	*****	mg/l	2X Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	75.0 Monthly Average	112 Weekly Average	lbs/day	*****	30.0 Monthly Average	45.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	50.0 Monthly Average	75.0 Weekly Average	lbs/day	*****	20.0 Monthly Average	30.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	0.076 Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Continuous	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.

**DSN 0013 (Continued): Municipal Wastewater - 0.3 MGD Treatment Facility**

During the period beginning with the facility expansion to 0.3 MGD and lasting through the completion of the facility expansion to 0.4 MGD or 0.5 MGD, the Permittee is authorized to discharge from Outfall 0013, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Chlorine, Total Residual (50060) See notes (3) Effluent Gross Value	****	****	****	****	****	1.0 Maximum Daily	mg/l	2X Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	****	****	****	****	126 Monthly Average	235 Maximum Daily	col/100mL	2X Weekly	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	62.5 Monthly Average	93.8 Weekly Average	lbs/day	****	25.0 Monthly Average	37.5 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	****	****	****	85.0 Monthly Average Minimum	****	****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	****	****	****	85.0 Monthly Average Minimum	****	****	%	Monthly	Calculated	Not Seasonal

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

- (1) Sample Frequency – See also Part I.B.2  
See Permit Requirements for Effluent Toxicity Testing in Part IV.B.
- (2) S = Summer (April – October)  
W = Winter (November - March)  
ECS = E. coli Summer (May - October)  
ECW = E. coli Winter (November - April)
- (3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.

**4. DSN 0014: Municipal Wastewater - 0.4 MGD Treatment Facility**

During the period beginning with the facility expansion to 0.4 MGD and lasting through the completion of the facility expansion to 0.5 MGD, the Permittee is authorized to discharge from Outfall 0014, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
				(Report)						
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	(Report) Minimum Daily	****	****	mg/l	2X Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	100 Monthly Average	150 Weekly Average	lbs/day	****	30.0 Monthly Average	45.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	66.7 Monthly Average	100 Weekly Average	lbs/day	****	20.0 Monthly Average	30.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	0.076 Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Daily	Continuous	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.

**DSN 0014 (Continued): Municipal Wastewater - 0.4 MGD Treatment Facility**

During the period beginning with the facility expansion to 0.4 MGD and lasting through the completion of the facility expansion to 0.5 MGD, the Permittee is authorized to discharge from Outfall 0014, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Chlorine, Total Residual (50060) See notes (3) Effluent Gross Value	*****	*****	*****	*****	*****	1.0 Maximum Daily	mg/l	2X Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	*****	*****	*****	*****	126 Monthly Average	235 Maximum Daily	col/100mL	2X Weekly	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	83.4 Monthly Average	125 Weekly Average	lbs/day	*****	25.0 Monthly Average	37.5 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.

**5. DSN 0015: Municipal Wastewater - 0.5 MGD Treatment Facility**

During the period beginning with the facility expansion to 0.5 MGD and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0014, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
				(Report)						
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	(Report) Minimum Daily	****	****	mg/l	3X Weekly test	Grab	Not Seasonal
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	9.0 Maximum Daily	S.U.	3X Weekly test	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	125 Monthly Average	187 Weekly Average	lbs/day	****	30.0 Monthly Average	45.0 Weekly Average	mg/l	3X Weekly test	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	83.4 Monthly Average	125 Weekly Average	lbs/day	****	20.0 Monthly Average	30.0 Weekly Average	mg/l	3X Weekly test	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	0.076 Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Daily	Continuous	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.



**DSN 0015 (Continued): Municipal Wastewater - 0.5 MGD Treatment Facility**

During the period beginning with the facility expansion to 0.5 MGD and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0015, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Chlorine, Total Residual (50060) See notes (3) Effluent Gross Value	****	*****	*****	*****	*****	1.0 Maximum Daily	mg/l	3X Weekly test	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	****	*****	*****	*****	126 Monthly Average	235 Maximum Daily	col/100mL	3X Weekly test	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	104 Monthly Average	156 Weekly Average	lbs/day	*****	25.0 Monthly Average	37.5 Weekly Average	mg/l	3X Weekly test	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	3X Weekly test	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal

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

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

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

(2) S = Summer (April – October)

W = Winter (November - March)

ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “\*9” on the monthly DMR.



## 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" or "\*B" 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" or "\*B" reported for values below the ML.

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

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

#### 4. **Recording of Results**

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

- a. The facility name and location, point source number, date, time and exact place of sampling;
- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- f. The results of all required analyses.

#### 5. **Records Retention and Production**

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

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

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

#### 7. **Monitoring Equipment and Instrumentation**

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

### C. **DISCHARGE REPORTING REQUIREMENTS**

#### 1. **Reporting of Monitoring Requirements**

- a. The permittee shall conduct the required monitoring in accordance with the following schedule:
  - (1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.
  - (2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).

- (3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).
  - (4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.
- b. The permittee shall submit discharge monitoring reports (DMRs) in accordance with the following schedule:
- (1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
  - (2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the first complete calendar quarter the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
  - (3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
  - (4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
- c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b. electronically.
- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b., unless otherwise directed by the Department.

If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date), if applicable.
  - (2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.
  - (3) A permittee with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

- (4) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
- (5) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
- (6) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and Regulations, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

**Alabama Department of Environmental Management  
Office of Water Services, Water 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  
Office of Water Services, Water 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, available on the Department's website (<http://www.adem.state.al.us/DeptForms/Form421.pdf>). The completed Form must document the following information:
  - (1) A description of the discharge and cause of noncompliance;
  - (2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If the noncompliance is not corrected by the due date of the written report, then the Permittee shall provide an estimated date by which the noncompliance will be corrected; and
  - (3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge and to prevent its recurrence.
- d. Immediate notification

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

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

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

#### **D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS**

##### **1. Anticipated Noncompliance**

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

##### **2. Termination of Discharge**

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

##### **3. Updating Information**

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

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

##### **4. Duty to Provide Information**

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

#### **E. SCHEDULE OF COMPLIANCE**

##### **1. Compliance with discharge limits**

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

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

##### **2. Schedule**

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

## **PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES**

### **A. OPERATIONAL AND MANAGEMENT REQUIREMENTS**

#### **1. Facilities Operation and Maintenance**

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

#### **2. Best Management Practices**

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

#### **3. Certified Operator**

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

### **B. OTHER RESPONSIBILITIES**

#### **1. Duty to Mitigate Adverse Impacts**

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

#### **2. Right of Entry and Inspection**

- a. The permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:
  - (1) Enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;
  - (3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
  - (4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

### **C. BYPASS AND UPSET**

#### **1. Bypass**

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
  - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;



- (2) It enters the same receiving stream as the permitted outfall; and
  - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
- (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
  - (3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

## 2. Upset

- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
- (1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
  - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:
    - (i) An upset occurred;
    - (ii) The Permittee can identify the specific cause(s) of the upset;
    - (iii) The Permittee's facility was being properly operated at the time of the upset; and
    - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
- b. The permittee has the burden of establishing that each of the conditions of Provision II. C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

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

### 1. Duty to Comply

- a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
- b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.
- c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
- d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.

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

## 2. **Removed Substances**

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

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

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

## 4. **Compliance with Statutes and Rules**

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

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

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

- a. If the permittee intends to continue to discharge beyond the expiration date of this permit, the permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
- b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

## 2. **Change in Discharge**

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

## 3. **Transfer of Permit**

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

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

#### 4. **Permit Modification and Revocation**

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
  - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
  - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
  - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
  - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
  - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
  - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
  - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
  - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
  - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
  - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
  - (8) To agree with a granted variance under 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; or

#### 5. **Termination**

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

- a. Violation of any term or condition of this permit;
- b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;

- d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee.
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

#### 6. Suspension

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

#### 7. Stay

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

### F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

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

### G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new indirect 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 may create a fire or explosive hazard, including, but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
2. Pollutants which may cause corrosive structural damage to the treatment works, but in no case discharges with a pH lower than 5.0;
3. Solid or viscous pollutants in amounts which may cause obstruction to the flow in sewers, or other interference in the treatment works;
4. Any pollutant, including oxygen demanding pollutants (BOD, etc.) of such volume or strength as to cause interference in the treatment works;

5. Heat in amounts which may inhibit biological activity in the treatment plant resulting in interference but in no case in such quantities that the temperature of the influent, at the treatment plant, exceeds 40 degrees centigrade or 104 degrees Fahrenheit;
6. Pollutants which may result in the presence of toxic gases, vapors, or fumes within the treatment works in a quantity that may cause acute worker health and safety problems;
7. Unless specifically authorized by this permit, any pollutants not generated at the facility for which this permit was issued; or
8. Petroleum oil, biodegradable cutting oil, or products of mineral oil origin in amounts that will cause pass through or interference.

## **PART III: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS**

### **A. CIVIL AND CRIMINAL LIABILITY**

#### **1. Tampering**

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

#### **2. False Statements**

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

#### **3. Permit Enforcement**

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:
  - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
  - (2) An action for damages;
  - (3) An action for injunctive relief; or
  - (4) An action for penalties.
- c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:
  - (1) Initiate enforcement action based upon the permit which has been continued;
  - (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
  - (3) Reissue the new permit with appropriate conditions; or
  - (4) Take other actions authorized by these rules and AWPCA.

#### **4. Relief from Liability**

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

### **B. OIL AND HAZARDOUS SUBSTANCE LIABILITY**

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

### **C. PROPERTY AND OTHER RIGHTS**

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



**D. AVAILABILITY OF REPORTS**

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

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

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

**F. COMPLIANCE WITH WATER QUALITY STANDARDS**

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

**G. GROUNDWATER**

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



## H. DEFINITIONS

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

23. **Grab Sample** – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
24. **Indirect Discharger** – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. **Industrial User** – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category “Division D – Manufacturing” and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
26. **MGD** – means million gallons per day.
27. **Monthly Average** – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
28. **New Discharger** – means a person, owning or operating any building, structure, facility, or installation:
  - a) From which there is or may be a discharge of pollutants;
  - b) That did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
  - c) Which has never received a final effective NPDES permit for dischargers at that site.
29. **NH3-N** – means the pollutant parameter ammonia, measured as nitrogen.
30. **Notifiable sanitary sewer overflow** - means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
  - a) Reaches a surface water of the State; or
  - b) May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
31. **Permit application** - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
32. **Point source** - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
33. **Pollutant** - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
34. **Privately Owned Treatment Works** – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a “POTW”.
35. **Publicly Owned Treatment Works (POTW)** – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
36. **Receiving Stream** – means the “waters” receiving a “discharge” from a “point source”.
37. **Severe property damage** - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
38. **Significant Source** – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work’s capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
39. **TKN** – means the pollutant parameter Total Kjeldahl Nitrogen.
40. **TON** – means the pollutant parameter Total Organic Nitrogen.
41. **TRC** – means Total Residual Chlorine.

42. **TSS** – means the pollutant parameter Total Suspended Solids.
43. **24HC** – means 24-hour composite sample, including any of the following:
  - a) The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
  - b) A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected;
  - c) A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
44. **Upset** - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
45. **Waters** - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
46. **Week** - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
47. **Weekly (7-day and calendar week) Average** – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

## I. SEVERABILITY

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

## **PART IV: SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS**

### **A. SLUDGE MANAGEMENT PRACTICES**

#### **1. Applicability**

- a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural 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 TESTING REOPENER**

Upon notification under Part II.G. of any newly introduced toxic industrial wastewaters, the Director may reopen the permit to include effluent toxicity limitations and testing requirements.

### **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" 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 the analytical result is less than the detection level or a value otherwise indicated in this permit, the Permittee shall report on the DMR form "\*\*B" 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 introduction of wastewater into the system, 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. SANITARY SEWER OVERFLOW RESPONSE PLAN

##### 1. SSO Response Plan

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

##### a. General Information

- (1) Approximate population of City/Town, if applicable
- (2) Approximate number of customers served by the Permittee
- (3) Identification of any subbasins designated by the Permittee, if applicable
- (4) Identification of estimated linear feet of sanitary sewers
- (5) Number of Pump/Lift Stations in the collection system

##### b. Responsibility Information

- (1) The title(s) and contact information of key position(s) who will coordinate the SSO response, including information for a backup coordinator in the event that the primary SSO coordinator is unavailable. The SSO coordinator is the person responsible for assessing the SSO and initiating a series of response actions based on the type, severity, and destination of the SSO, except for routine SSOs for which the coordinator may pre-approve written procedures. Routine SSOs are those for which the corrective action procedures are generally consistent.
- (2) The title(s), and contact information of key position(s) who will respond to SSOs, including information for backup responder(s) in the event the primary responder(s) are unavailable (i.e., position(s) who provide notification to the Department, the public, the county health department, and other affected entities such as public water systems; position(s) responsible for organizing crews for response; position(s) responsible for addressing public inquiries)

##### c. SSO and Surface Water Assessment

- (1) Identification of locations within the collection system at which an SSO is likely to occur (e.g., based upon historical SSOs, lift stations where electricity may be lost, etc.)
- (2) A map of the general collection system area, including identification of surface waterbodies and the location(s) of public drinking water source(s). Mapping of all collection system piping, pump stations, etc. is not required; however, if this information is already available, it should be included.
- (3) Identification of surface waterbodies within the collection system area which are classified as Swimming according to ADEM Admin. Code chap. 335-6-11. References available to assist in this requirement include the following: <http://adem.alabama.gov/alEnviroRegLaws/files/Division6Vol11.pdf> and <http://adem.alabama.gov/wqmap>.
- (4) Identification of surface waterbodies within the collection system area which are not classified as Swimming as indicated in paragraph c above, but are known locally as areas where swimming occurs or as areas that are heavily recreated

##### d. Public Reporting of SSOs

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

- (2) Information requested from the person reporting an SSO to assist the Permittee in identifying the SSO (e.g., date, time, location, contact information)
- (3) Procedures for communication of the SSO report to the appropriate positions for follow-up investigation and response, if necessary
- e. Procedures to immediately notify the Department, the county health department, and other affected entities (such as public water systems) upon becoming aware of notifiable SSOs
- f. Public Notification Methods for SSOs
  - (1) A listing of methods that are feasible, as determined by the Permittee, for public notifications (e.g., flyers distributed to nearby residents; signs posted at the location of the SSO, where the SSO enters a water of the state, and/or at a central public location; signs posted at fishing piers, boat launches, parks, swimming waterbodies, etc.; website and/or social media notifications; local print or radio and broadcast media notifications; "opt in" email, text message, or automated phone message notifications)
    - (i) If signage is a feasible method for public notification, procedures for use and removal of signage (e.g., availability and maintenance of signs, appropriate duration of postings)
  - (2) Minimum information to be included in public notifications (e.g., identification that an SSO has occurred, date, duration if known, estimated volume if known, location of the SSO by street address or other appropriate method, initial destination of the SSO)
  - (3) Procedures developed by the Permittee for determining the appropriate public notification method(s) based upon the potential for public exposure to health risks associated with the SSO
- g. Standard Procedures shall be developed by the Permittee and shall include, at a minimum
  - (1) General SSO Response Procedures (e.g., procedures for dispatching staff to assess/correct an SSO; procedures for routine SSO corrective actions such as those for sewer blockages, overflowing manholes, line breakages, pump station power failure, etc.; procedures for disinfection of affected area, if applicable);
  - (2) Procedures for collection and proper disposal of the SSO, if feasible.
  - (3) General procedures for coordinating instream water quality monitoring, including, but not limited to, procedures for mobilizing staff, collecting samples, and typical test methods should the Department or the Permittee determine monitoring is appropriate following an SSO. Identification of a contractor who will collect and analyze the sample(s) may be listed in lieu of the procedures.
  - (4) References to other documents (such as Standard Operating Procedures for SSO Responses) may be acceptable for this section; however, the referenced document shall be identified and shall be reviewed at a frequency of at least that required by the Administrative Procedures Section.
- h. Date of the SSO Response Plan, dates of all modifications and/or reviews, the title and signature of the reviewer(s) for each date and the signature of the responsible official or the appropriate designee.

## **2. SSO Response Plan Implementation**

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

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

- a. When requested by the Director or his designee, the Permittee shall make the SSO Response Plan available for review by the Department.
- b. Upon review, the Director or his designee may notify the Permittee that the SSO Response Plan is deficient and require modification of the Plan.
- c. Within thirty days of receipt of notification, or an alternate timeframe as approved by the Department, the Permittee shall modify any SSO Response Plan deficiency identified by the Director or his designee and shall certify to the Department that the modification has been made.

## **4. SSO Response Plan Administrative Procedures**

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

- b. The Permittee shall make a copy of the SSO Response Plan available to the public upon written request within 30 days of such request. The Permittee may redact information which may present security issues, such as location of public water supplies, identification of specific details of vulnerabilities, employee information, etc.
- c. The Permittee shall provide training for any personnel required to implement the SSO Response Plan and shall retain at the facility documentation of such training. This documentation shall be available for inspection by the Department. Training shall be provided for existing personnel prior to the date by which implementation of the SSO Response Plan is required and for new personnel as soon as possible. Should significant revisions be made to the SSO Response Plan, training regarding the revisions shall be conducted as soon as possible.
- d. The Permittee shall complete a review and evaluation of the SSO Response Plan at least once every three years. Documentation of the SSO Response Plan review and evaluation shall be signed and dated by the responsible official or the appropriate designee as part of the SSO Response Plan.



## NPDES PERMIT RATIONALE

NPDES Permit No: **AL0084495** Date: June 25, 2024

Permit Applicant: StructCon, LLC  
17739 Hampton Cove Way  
Athens, AL 35611

Location: **Browns Ferry Marina & Development WWTP**  
Nuclear Plant Road  
Athens, AL 35611

Draft Permit is: Initial Issuance: X  
Reissuance due to expiration:  
Modification of existing permit:  
Revocation and Reissuance:

Basis for Limitations: Water Quality Model: CBOD<sub>5</sub>, NH<sub>3</sub>N  
Reissuance with no modification: NA  
Instream calculation at 7Q10: ~1%  
Toxicity based: NA  
Secondary Treatment Levels: TSS, CBOD<sub>5</sub> Percent Removal, TSS Percent Removal  
Other (described below): Phosphorus, pH, E. Coli, TRC

Design Flow in Million Gallons per Day: 0.2 MGD, 0.3 MGD, 0.4 MGD, 0.5 MGD

Major: No

Description of Discharge:

Feature ID	Description	Receiving Water	Waterbody Use Classification	303(d)	TMDL
001	Municipal Wastewater	Tennessee River (Wheeler Lake)	Fish and Wildlife (F&W), Swimming and Other Whole Body Water-Contact Sports (S)	Yes	No

Discussion: This permit is an initial issuance.

**Outfalls 0011 (0.1 MGD), 0012 (0.2 MGD), 0013 (0.3 MGD) 0014 (0.4 MGD)**

The pH limits for Outfalls 0011, 0012, 0013, and 0014 were developed to be consistent with the water-use classification of the receiving stream. The daily maximum pH limit is 9.0 s.u. and the daily minimum limit is 6.0 s.u. The monitoring frequency will be twice per week. Flow will be monitored continuously, on a daily basis.

The discharge limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>) and Ammonia as Nitrogen (NH<sub>3</sub>N) for Outfalls 0011, 0012, 0013, and 0014 were developed by the Municipal Permitting Section based on a Waste Load Allocation (WLA) model prepared by ADEM's Water Quality Division on June 20, 2024. The Department's Water Quality Branch has indicated that the 0.5 MGD model should be protective of the 0.1, 0.2, 0.3, and 0.4 MGD Design Flows. The CBOD<sub>5</sub> and NH<sub>3</sub>N monthly average limits are 25.0 mg/l and 20.0 mg/l, respectively. DO will be in the permit on a monitor only basis. The monitoring frequencies for these parameters will be twice per

week. A minimum percent removal of 85.0 percent is imposed for CBOD<sub>5</sub> in accordance with 40 CFR Part 133.102 that will be calculated monthly.

The monthly average Total Suspended Solids (TSS) limit is established at 30.0 mg/l in accordance with 40 CFR 133.102. The monitoring frequency will be twice per week. A minimum percent removal of 85.0 percent is imposed for TSS in accordance with 40 CFR 133.102 that will be calculated monthly.

The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since the Tennessee River (Wheeler Lake) is classified as Swimming and Fish & Wildlife, the limits will be 126 col/100ml (monthly average) and 235 col/100ml (daily maximum) based on the Swimming classification. The monitoring frequency will be twice per week.

The Municipal Section, in consultation with the Department's Water Quality Branch, has conducted a narrative nutrient reasonable potential analysis. Based on a review of the facility's estimated level of nutrients in the discharge and current assessments of the available information, the Permittee is required to monitor and report effluent test results monthly for the following nutrient-related parameters: Total Kjeldahl Nitrogen (TKN) and Nitrate plus Nitrite-Nitrogen (NO<sub>2</sub>+NO<sub>3</sub>-N) during the summer months (April-October). 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 further nutrient limits on this discharge.

This discharge to the Tennessee River (Wheeler Lake) is on the current 303(d) list for nutrients. In accordance with Departmental policy of assuring a new discharge does not contribute to an existing nutrient impairment, the Total Phosphorus (TP) permit limitation is based upon the 2020 ecoregional reference guideline value for Level 4 ecoregion 71g. Therefore, Total Phosphorous will be in the permit with a monthly average limit of 0.076 mg/L during the summer months (April – October). The monitoring frequency will be once per month.

The Total Residual Chlorine (TRC) limits are based on calculations to ensure that acute and chronic toxic concentrations of TRC in the receiving stream are not exceeded. The TRC limits 1.0 mg/L (daily maximum). The monitoring frequency will be twice per week.

There is no toxicity monitoring because this is a minor facility with no industrial dischargers.

The receiving stream is the Tennessee River (Wheeler Lake), a Tier I waterbody. The stream is on the current 303(d) list for nutrients and PFOS. The discharge from the Browns Ferry Marina & Development WWTP is not expected to cause or contribute to the PFOS impairment at the Tennessee River (Wheeler Lake). The limits and monitoring imposed in this permit for nutrients are consistent with Department policy and considered protective of water quality.

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

#### **Outfall 0014 – 0.5 MGD**

The pH limits for Outfall 0014 were developed to be consistent with the water-use classification of the receiving stream. The daily maximum pH limit is 9.0 s.u. and the daily minimum limit is 6.0 s.u. The monitoring frequency will be three times per week. Flow will be monitored continuously, on a daily basis.

The discharge limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>) and Ammonia as Nitrogen (NH<sub>3</sub>N) for Outfall 0014 were developed by the Municipal Permitting Section based on a Waste Load Allocation (WLA) model prepared by ADEM's Water Quality Division on June 20, 2024. The CBOD<sub>5</sub> and NH<sub>3</sub>N monthly average limits are 25.0 mg/l and 20.0 mg/l, respectively. DO will be in the permit on a monitor only basis. The monitoring frequencies for these parameters will be three times per week. A minimum percent removal of 85.0 percent is imposed for CBOD<sub>5</sub> in accordance with 40 CFR Part 133.102 that will be calculated monthly.

The monthly average Total Suspended Solids (TSS) limit is established at 30.0 mg/l in accordance with 40 CFR 133.102. The monitoring frequency will be three times per week. A minimum percent removal of 85.0 percent is imposed for TSS in accordance with 40 CFR 133.102 that will be calculated monthly.

The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since the Tennessee River (Wheeler Lake) is classified as Swimming and Fish & Wildlife, the limits will be 126 col/100ml (monthly average) and 235 col/100ml (daily maximum) based on the Swimming classification. The monitoring frequency will be three times per week.

The Municipal Section, in consultation with the Department's Water Quality Branch, has conducted a narrative nutrient reasonable potential analysis. Based on a review of the facility's estimated level of nutrients in the discharge and current assessments of the available information, the Permittee is required to monitor and report effluent test results monthly for the following nutrient-related parameters: Total Kjeldahl Nitrogen (TKN) and Nitrate plus Nitrite-Nitrogen (NO<sub>2</sub>+NO<sub>3</sub>-N) during the summer months (April-October). 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 further nutrient limits on this discharge.

This discharge to the Tennessee River (Wheeler Lake) is on the current 303(d) list for nutrients. In accordance with Departmental policy of assuring a new discharge does not contribute to an existing nutrient impairment, the Total Phosphorus (TP) permit limitation is based upon the 2020 ecoregional reference guideline value for Level 4 ecoregion 71g. Therefore, Total Phosphorous will be in the permit with a monthly average limit of 0.076 mg/L during the summer months (April – October). The monitoring frequency will be once per month.

The Total Residual Chlorine (TRC) limits are based on calculations to ensure that acute and chronic toxic concentrations of TRC in the receiving stream are not exceeded. The TRC limits 1.0 mg/L (daily maximum). The monitoring frequency will be three times per week.

There is no toxicity monitoring because this is a minor facility with no industrial dischargers.

The receiving stream is the Tennessee River (Wheeler Lake), a Tier I waterbody. The stream is on the current 303(d) list for nutrients and PFOS. The discharge from the Browns Ferry Marina & Development WWTP is not expected to cause or contribute to the PFOS impairment at the Tennessee River (Wheeler Lake). The limits and monitoring imposed in this permit for nutrients are consistent with Department policy and considered protective of water quality.

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

Prepared by: Sandra Lee

## TOXICITY AND DISINFECTION RATIONALE

Facility Name:	<b>Browns Ferry Marina and Development WWTP</b>	
NPDES Permit Number:	<b>AL0084495</b>	
Receiving Stream:	<b>Tennessee River (Wheeler Lake)</b>	
Facility Design Flow (Q <sub>w</sub> ):	<b>0.100 MGD</b>	
Receiving Stream 7Q <sub>10</sub> :	<b>6867.140 cfs</b>	
Receiving Stream 1Q <sub>10</sub> :	<b>1317.720 cfs</b>	
Winter Headwater Flow (WHF):	<b>11486.78 cfs</b>	
Summer Temperature for CCC:	<b>28 deg. Celsius</b>	
Winter Temperature for CCC:	<b>28 deg. Celsius</b>	
Headwater Background NH <sub>3</sub> -N Level:	<b>0.44 mg/l</b>	
Receiving Stream pH:	<b>7.0 s.u.</b>	
Headwater Background FC Level (summer):	<b>N./A.</b>	<b>(Only applicable for facilities with diffusers.)</b>
(winter)	<b>N./A.</b>	

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

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 0.002\%$$

### AMMONIA TOXICITY LIMITATIONS

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

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

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

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 0.00\% \qquad \qquad \qquad \text{Stream-Dominated, CMC Applies} \end{aligned}$$

Criterion Maximum Concentration (CMC):  $CMC = 0.411 / (1 + 10^{(7.204 - pH)}) + 58.4 / (1 + 10^{(pH - 7.204)})$   
 Criterion Continuous Concentration (CCC):  $CCC = [0.0577 / (1 + 10^{(7.688 - pH)}) + 2.487 / (1 + 10^{(pH - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}]$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>
Allowable Winter Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 1582317.0 \text{ mg/l NH}_3\text{-N at 7Q}_{10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} \\ &= \text{N./A.} \end{aligned}$$

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.

	<u>DO-based NH<sub>3</sub>-N limit</u>	<u>Toxicity-based NH<sub>3</sub>-N limit</u>
Summer	<b>20.00 mg/l NH<sub>3</sub>-N</b>	<b>1582317.00 mg/l NH<sub>3</sub>-N</b>
Winter	<b>N./A.</b>	<b>N./A.</b>

**Summer: The DO based limit of 20.00 mg/l NH<sub>3</sub>-N applies.**  
**Winter limits are not applicable.**

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.

**This is a minor facility (Qw < 1.0 MGD) with no SID permits. No toxicity testing is required.**

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{1Q10 + Q_w} = 0.01\% \quad \text{Note: This number will be rounded up for toxicity testing purposes.}$$

**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)
<b><u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u></b>		
Monthly limit as monthly average (November through April):	126	<b>126</b>
Monthly limit as monthly average (May through October):	126	<b>126</b>
Daily Max (November through April):	235	<b>235</b>
Daily Max (May through October):	235	<b>235</b>
<b><u>Enterococci (applies to Coastal)</u></b>		
Monthly limit as geometric mean (October through May):	Not applicable	<b>Not applicable</b>
Monthly limit as geometric mean (June through September):	Not applicable	<b>Not applicable</b>
Daily Max (October through May):	Not applicable	<b>Not applicable</b>
Daily Max (June through September):	Not applicable	<b>Not applicable</b>

**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:	488.229 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	843.304 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: Sandra Lee Date: 7/17/2024

## TOXICITY AND DISINFECTION RATIONALE

Facility Name:	<b>Browns Ferry Marina and Development WWTP</b>	
NPDES Permit Number:	<b>AL0084495</b>	
Receiving Stream:	<b>Tennessee River (Wheeler Lake)</b>	
Facility Design Flow (Q <sub>w</sub> ):	<b>0.200 MGD</b>	
Receiving Stream 7Q <sub>10</sub> :	<b>6867.140 cfs</b>	
Receiving Stream 1Q <sub>10</sub> :	<b>1317.720 cfs</b>	
Winter Headwater Flow (WHF):	<b>11486.78 cfs</b>	
Summer Temperature for CCC:	<b>28 deg. Celsius</b>	
Winter Temperature for CCC:	<b>28 deg. Celsius</b>	
Headwater Background NH <sub>3</sub> -N Level:	<b>0.44 mg/l</b>	
Receiving Stream pH:	<b>7.0 s.u.</b>	
Headwater Background FC Level (summer):	<b>N/A.</b>	<b>(Only applicable for facilities with diffusers.)</b>
(winter):	<b>N/A.</b>	

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

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 0.005\%$$

### AMMONIA TOXICITY LIMITATIONS

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

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

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

$$\text{Limiting Dilution} = \frac{Q_w}{7Q_{10} + Q_w} = 0.00\% \quad \text{Stream-Dominated, CMC Applies}$$

Criterion Maximum Concentration (CMC):  $CMC = 0.411 / (1 + 10^{(7.204 - pH)}) + 58.4 / (1 + 10^{(pH - 7.204)})$   
 Criterion Continuous Concentration (CCC):  $CCC = [0.0577 / (1 + 10^{(7.688 - pH)}) + 2.487 / (1 + 10^{(pH - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}]$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>
Allowable Winter Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>

$$\text{Summer NH}_3\text{-N Toxicity Limit} = \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} = 791176.5 \text{ mg/l NH}_3\text{-N at } 7Q_{10}$$

$$\text{Winter NH}_3\text{-N Toxicity Limit} = \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} = \text{N/A.}$$

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.

	<u>DO-based NH<sub>3</sub>-N limit</u>	<u>Toxicity-based NH<sub>3</sub>-N limit</u>
Summer	<b>20.00 mg/l NH<sub>3</sub>-N</b>	<b>791176.50 mg/l NH<sub>3</sub>-N</b>
Winter	<b>N/A.</b>	<b>N/A.</b>

**Summer: The DO based limit of 20.00 mg/l NH<sub>3</sub>-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.

**This is a minor facility (Qw < 1.0 MGD) with no SID permits. No toxicity testing is required.**

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{1Q10 + Q_w} = 0.02\% \quad \text{Note: This number will be rounded up for toxicity testing purposes.}$$

**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)
<b><u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u></b>		
Monthly limit as monthly average (November through April):	126	<b>126</b>
Monthly limit as monthly average (May through October):	126	<b>126</b>
Daily Max (November through April):	235	<b>235</b>
Daily Max (May through October):	235	<b>235</b>
<b><u>Enterococci (applies to Coastal)</u></b>		
Monthly limit as geometric mean (October through May):	Not applicable	<b>Not applicable</b>
Monthly limit as geometric mean (June through September):	Not applicable	<b>Not applicable</b>
Daily Max (October through May):	Not applicable	<b>Not applicable</b>
Daily Max (June through September):	Not applicable	<b>Not applicable</b>

**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:	244.120 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	421.662 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: Sandra Lee Date: 7/17/2024

## TOXICITY AND DISINFECTION RATIONALE

Facility Name:	<b>Browns Ferry Marina and Development WWTP</b>	
NPDES Permit Number:	<b>AL0084495</b>	
Receiving Stream:	<b>Tennessee River (Wheeler Lake)</b>	
Facility Design Flow (Q <sub>w</sub> ):	<b>0.300 MGD</b>	
Receiving Stream 7Q <sub>10</sub> :	<b>6867.140 cfs</b>	
Receiving Stream 1Q <sub>10</sub> :	<b>1317.720 cfs</b>	
Winter Headwater Flow (WHF):	<b>11486.78 cfs</b>	
Summer Temperature for CCC:	<b>28 deg. Celsius</b>	
Winter Temperature for CCC:	<b>28 deg. Celsius</b>	
Headwater Background NH <sub>3</sub> -N Level:	<b>0.44 mg/l</b>	
Receiving Stream pH:	<b>7.0 s.u.</b>	
Headwater Background FC Level (summer):	<b>N/A.</b>	<b>(Only applicable for facilities with diffusers.)</b>
(winter):	<b>N/A.</b>	

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

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 0.01\%$$

### AMMONIA TOXICITY LIMITATIONS

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

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

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

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 0.01\% \qquad \qquad \qquad \text{Stream-Dominated, CMC Applies} \end{aligned}$$

Criterion Maximum Concentration (CMC):	$CMC = 0.411 / (1 + 10^{(7.204 - pH)}) + 58.4 / (1 + 10^{(pH - 7.204)})$
Criterion Continuous Concentration (CCC):	$CCC = [0.0577 / (1 + 10^{(7.688 - pH)}) + 2.487 / (1 + 10^{(pH - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}]$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>
Allowable Winter Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 527463.1 \text{ mg/l NH}_3\text{-N at 7Q}_{10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} \\ &= \text{N/A.} \end{aligned}$$

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.

	<u>DO-based NH<sub>3</sub>-N limit</u>	<u>Toxicity-based NH<sub>3</sub>-N limit</u>
Summer	<b>20.00 mg/l NH<sub>3</sub>-N</b>	<b>527463.10 mg/l NH<sub>3</sub>-N</b>
Winter	<b>N/A.</b>	<b>N/A.</b>

**Summer: The DO based limit of 20.00 mg/l NH<sub>3</sub>-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.

**This is a minor facility (Qw < 1.0 MGD) with no SID permits. No toxicity testing is required.**

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{1Q10 + Q_w} = 0.04\% \quad \text{Note: This number will be rounded up for toxicity testing purposes.}$$

**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)
<b><u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u></b>		
Monthly limit as monthly average (November through April):	126	<b>126</b>
Monthly limit as monthly average (May through October):	126	<b>126</b>
Daily Max (November through April):	235	<b>235</b>
Daily Max (May through October):	235	<b>235</b>
<b><u>Enterococci (applies to Coastal)</u></b>		
Monthly limit as geometric mean (October through May):	Not applicable	<b>Not applicable</b>
Monthly limit as geometric mean (June through September):	Not applicable	<b>Not applicable</b>
Daily Max (October through May):	Not applicable	<b>Not applicable</b>
Daily Max (June through September):	Not applicable	<b>Not applicable</b>

**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:	162.750 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	281.114 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: Sandra Lee Date: 6/26/2024

## TOXICITY AND DISINFECTION RATIONALE

Facility Name:	<b>Browns Ferry Marina and Development WWTP</b>	
NPDES Permit Number:	<b>AL0084495</b>	
Receiving Stream:	<b>Tennessee River (Wheeler Lake)</b>	
Facility Design Flow (Q <sub>w</sub> ):	<b>0.400 MGD</b>	
Receiving Stream 7Q <sub>10</sub> :	<b>6867.140 cfs</b>	
Receiving Stream 1Q <sub>10</sub> :	<b>1317.720 cfs</b>	
Winter Headwater Flow (WHF):	<b>11486.78 cfs</b>	
Summer Temperature for CCC:	<b>28 deg. Celsius</b>	
Winter Temperature for CCC:	<b>28 deg. Celsius</b>	
Headwater Background NH <sub>3</sub> -N Level:	<b>0.44 mg/l</b>	
Receiving Stream pH:	<b>7.0 s.u.</b>	
Headwater Background FC Level (summer):	<b>N/A.</b>	<b>(Only applicable for facilities with diffusers.)</b>
(winter):	<b>N/A.</b>	

The Stream Dilution Ration (SDR) is calculated using the 7Q<sub>10</sub> for all stream classifications.

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 0.01\%$$

### AMMONIA TOXICITY LIMITATIONS

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

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

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

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 0.01\% \quad \text{Stream-Dominated, CMC Applies} \end{aligned}$$

$$\begin{aligned} \text{Criterion Maximum Concentration (CMC):} & \quad \text{CMC} = 0.411 / (1 + 10^{(7.204 - \text{pH})}) + 58.4 / (1 + 10^{(\text{pH} - 7.204)}) \\ \text{Criterion Continuous Concentration (CCC):} & \quad \text{CCC} = [0.0577 / (1 + 10^{(7.688 - \text{pH})}) + 2.487 / (1 + 10^{(\text{pH} - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}] \end{aligned}$$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>
Allowable Winter Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 395606.3 \text{ mg/l NH}_3\text{-N at } 7Q_{10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} \\ &= \text{N/A.} \end{aligned}$$

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.

	<u>DO-based NH<sub>3</sub>-N limit</u>	<u>Toxicity-based NH<sub>3</sub>-N limit</u>
Summer	<b>20.00 mg/l NH<sub>3</sub>-N</b>	<b>395606.30 mg/l NH<sub>3</sub>-N</b>
Winter	<b>N/A.</b>	<b>N/A.</b>

**Summer: The DO based limit of 20.00 mg/l NH<sub>3</sub>-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.

**This is a minor facility (Qw < 1.0 MGD) with no SID permits. No toxicity testing is required.**

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{1Q_{10} + Q_w} = 0.05\% \quad \text{Note: This number will be rounded up for toxicity testing purposes.}$$

## 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.**

	<u>Stream Standard</u> (colonies/100ml)	<u>Effluent Limit</u> (colonies/100ml)
<b><u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u></b>		
Monthly limit as monthly average (November through April):	126	<b>126</b>
Monthly limit as monthly average (May through October):	126	<b>126</b>
Daily Max (November through April):	235	<b>235</b>
Daily Max (May through October):	235	<b>235</b>
<b><u>Enterococci (applies to Coastal)</u></b>		
Monthly limit as geometric mean (October through May):	Not applicable	<b>Not applicable</b>
Monthly limit as geometric mean (June through September):	Not applicable	<b>Not applicable</b>
Daily Max (October through May):	Not applicable	<b>Not applicable</b>
Daily Max (June through September):	Not applicable	<b>Not applicable</b>

## 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:	122.065 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	210.840 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:

Sandra Lee

Date:

6/26/2024

## TOXICITY AND DISINFECTION RATIONALE

Facility Name:	<b>Browns Ferry Marina and Development WWTP</b>	
NPDES Permit Number:	<b>AL0084495</b>	
Receiving Stream:	<b>Tennessee River (Wheeler Lake)</b>	
Facility Design Flow (Q <sub>w</sub> ):	<b>0.500 MGD</b>	
Receiving Stream 7Q <sub>10</sub> :	<b>6867.140 cfs</b>	
Receiving Stream 1Q <sub>10</sub> :	<b>1317.720 cfs</b>	
Winter Headwater Flow (WHF):	<b>11486.78 cfs</b>	
Summer Temperature for CCC:	<b>28 deg. Celsius</b>	
Winter Temperature for CCC:	<b>28 deg. Celsius</b>	
Headwater Background NH <sub>3</sub> -N Level:	<b>0.44 mg/l</b>	
Receiving Stream pH:	<b>7.0 s.u.</b>	
Headwater Background FC Level (summer):	<b>N/A.</b>	<b>(Only applicable for facilities with diffusers.)</b>
(winter):	<b>N/A.</b>	

The Stream Dilution Ratio (SDR) is calculated using the 7Q<sub>10</sub> for all stream classifications.

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 0.01\%$$

### AMMONIA TOXICITY LIMITATIONS

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

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

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

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 0.01\% \quad \text{Stream-Dominated, CMC Applies} \end{aligned}$$

$$\begin{aligned} \text{Criterion Maximum Concentration (CMC):} & \quad \text{CMC} = 0.411 / (1 + 10^{(7.204 - \text{pH})}) + 58.4 / (1 + 10^{(\text{pH} - 7.204)}) \\ \text{Criterion Continuous Concentration (CCC):} & \quad \text{CCC} = [0.0577 / (1 + 10^{(7.688 - \text{pH})}) + 2.487 / (1 + 10^{(\text{pH} - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}] \end{aligned}$$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>
Allowable Winter Instream NH <sub>3</sub> -N:	<b>36.09 mg/l</b>	<b>2.48 mg/l</b>

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 316492.3 \text{ mg/l NH}_3\text{-N at } 7Q_{10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} \\ &= \text{N/A.} \end{aligned}$$

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.

	<u>DO-based NH<sub>3</sub>-N limit</u>	<u>Toxicity-based NH<sub>3</sub>-N limit</u>
Summer	<b>20.00 mg/l NH<sub>3</sub>-N</b>	<b>316492.30 mg/l NH<sub>3</sub>-N</b>
Winter	<b>N/A.</b>	<b>N/A.</b>

**Summer: The DO based limit of 20.00 mg/l NH<sub>3</sub>-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.

**This is a minor facility (Qw < 1.0 MGD) with no SID permits. No toxicity testing is required.**

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{1Q10 + Q_w} = 0.06\%$$

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)
<b><u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u></b>		
Monthly limit as monthly average (November through April):	126	<b>126</b>
Monthly limit as monthly average (May through October):	126	<b>126</b>
Daily Max (November through April):	235	<b>235</b>
Daily Max (May through October):	235	<b>235</b>
<b><u>Enterococci (applies to Coastal)</u></b>		
Monthly limit as geometric mean (October through May):	Not applicable	<b>Not applicable</b>
Monthly limit as geometric mean (June through September):	Not applicable	<b>Not applicable</b>
Daily Max (October through May):	Not applicable	<b>Not applicable</b>
Daily Max (June through September):	Not applicable	<b>Not applicable</b>

**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:	97.655 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	168.676 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: Sandra Lee Date: 6/25/2024

# Waste Load Allocation Summary

Page 1

## REQUEST INFORMATION

Request Number: 4007

From:  In Branch/Section:   
Date Submitted:  Date Required:  FUND Code:   
Date Permit application received by NPDES program:

Receiving Waterbody:   
Previous Stream Name:

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

River Basin:  Outfall Latitude:  (decimal degrees)  
\*County:  Outfall Longitude:  (decimal degrees)

Permit Number:  Permit Type:   
Permit Status:   
Type of Discharger:

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

If yes, impacting dischargers names:   
Impacting dischargers permit numbers:

Existing Discharge Design Flow:  MGD  
Proposed Discharge Design Flow:  MGD  
Note: The flow rates given should be those requested for modeling.

Comments included:  Yes  No  
Information Verified By:  Year File Was Created:   
Response ID Number:

Lat/Long Method:

12 Digit HUC Code:

Use Classification:

Site Visit Completed?  Yes  No

Date of Site Visit:

Waterbody Impaired?  Yes  No

Date of WLA Response:

Antidegradation:  Yes  No

Approved TMDL?  Yes  No

Waterbody Tier Level:

Use Support Category:

Approval Date of TMDL:

## Waste Load Allocation Information

Modeled Reach Length:  Miles Date of Allocation:   
Name of Model Used:  Allocation Type:   
Model Completed by:  Type of Model Used:   
Allocation Developed by:



# Waste Load Allocation Summary

Annual Effluent Limits	Conventional Parameters				Other Parameters			
	Qw	MGD	Qw	MGD	Qw	0.5	MGD	Qw
	Season <input type="text"/>		Season <input type="text"/>		Season Summer		Season <input type="text"/>	
Qw 0.5 MGD	From <input type="text"/>		From <input type="text"/>		From Apr		From <input type="text"/>	
CBOD5 25 mg/L	Through <input type="text"/>		Through <input type="text"/>		Through Oct		Through <input type="text"/>	
NH3-N 20 mg/L	CBOD5 <input type="text"/>	CBOD5 <input type="text"/>	TP 0.076 mg/L	TP <input type="text"/>	TN <input type="text"/>	TN <input type="text"/>	TSS <input type="text"/>	TSS <input type="text"/>
TKN <input type="text"/>	NH3-N <input type="text"/>	NH3-N <input type="text"/>	TN <input type="text"/>	TN <input type="text"/>	TSS <input type="text"/>	TSS <input type="text"/>	D.O. <input type="text"/>	D.O. <input type="text"/>
D.O. <input type="text"/>	TKN <input type="text"/>	TKN <input type="text"/>	D.O. <input type="text"/>	D.O. <input type="text"/>				

"Monitor Only" Parameters for Effluent:	Parameter	Frequency	Parameter	Frequency
	DO	Monthly		
	TKN	Monthly(Apr-Oct)		
	NO2+NO3-N	Monthly(Apr-Oct)		

Water Quality Characteristics Immediately Upstream of Discharge				
Parameter	Summer		Winter	
CBODu	1.9	mg/l		mg/l
NH3-N	0.4425	mg/l		mg/l
Temperature	28	°C		°C
pH	7	su		su

Hydrology at Discharge Location				Method Used to Calculate	
Drainage Area Qualifier  Exact	Drainage Area	27100	sq mi	ADEM Estimate w/TVA Flow Data	
	Stream 7Q10	6867.14	cfs	ADEM Estimate w/TVA Flow Data	
	Stream 1Q10	1317.72	cfs	ADEM Estimate w/TVA Flow Data	
	Stream 7Q2	11486.78	cfs	ADEM Estimate w/TVA Flow Data	
	Annual Average	45776.63	cfs	ADEM Estimate w/TVA Flow Data	

**Comments and/or Notations** Proposed 0.5 MGD discharge to the Tennessee River (Wheeler Lake). The Total Phosphorus effluent limitation is based upon the Departmental policy of assuring a new discharge does not contribute to an existing nutrient impairment, in this case for the Tennessee River (Wheeler Lake) (ALAL06030002-1107-103). The TP effluent limitation is based upon the 2020 ecoregional reference guideline value for Level 4 ecoregion 71g.

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

June 20, 2024

Memorandum:

**TO:** Sandy Lee  
Industrial/Municipal Branch

**FROM:** James Mooney  
Water Quality Branch

**RE:** Browns Ferry Marina and Development WWTP - WLA

The Water Quality Branch has completed the wasteload allocation (WLA) for the proposed Browns Ferry Marina and Development WWTP discharge (0.5 MGD) to the Tennessee River (Wheeler Lake). The Qual2k model was utilized to evaluate the necessary effluent limitations. The use classification for the Tennessee River (Wheeler Lake) at the discharge location is Swimming (S) / Fish and Wildlife (F&W). Departmental regulations dictate the following with regard to applicable dissolved oxygen criteria for the use classifications: "For a diversified warm water biota, including game fish, daily dissolved oxygen concentrations shall not be less than 5 mg/l at all times" (335-6-10-.09). The tables below depict the necessary effluent limitations that are expected to be protective of water quality and maintain instream DO concentrations above 5 mg/l. The Total Phosphorus effluent limitation below is based upon the Departmental policy of assuring a new discharge does not contribute to an existing nutrient impairment, in this case for the Tennessee River (Wheeler Lake) (ALAL06030002-1107-103). The TP effluent limitation is based upon the 2020 ecoregional reference guideline value for Level 4 ecoregion 71g.

**Browns Ferry Marina and Development WWTP NPDES# AL0084495**

**Q<sub>w</sub> = 0.5 MGD**

Parameter	Effluent Limit
CBOD <sub>5</sub> (mg/l)	25
NH <sub>3</sub> -N (mg/l)	20
Minimum DO (mg/l)	0
Total Phosphorus (mg/l)	0.076 <sup>a</sup>

a. Applicable April - October

**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)

Form 2A NPDES		<b>U.S. Environmental Protection Agency</b> <b>Application for NPDES Permit to Discharge Wastewater</b> <b>NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS</b>
		<b>SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))</b>

Facility Information	1.1	Facility name Browns Ferry Marina & Development WWTP			
		Mailing address (street or P.O. box) 17739 Hampton Cove Way			
		City or town Athens	State Alabama	ZIP code 35611	
		Contact name (first and last) Braden Preston	Title Owner	Phone number 256-508-2185	Email address braden@prestonengllc.com
		Location address (street, route number, or other specific identifier) <input checked="" type="checkbox"/> Same as mailing address Nuclear Plant Rd.			
		City or town Athens, Limestone County	State AL	ZIP code 35611	
	1.2	Is this application for a facility that has yet to commence discharge? <input checked="" type="checkbox"/> Yes → See instructions on data submission requirements for new dischargers. <input type="checkbox"/> No			
Applicant Information	1.3	Is applicant different from entity listed under Item 1.1 above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.4.			
		Applicant name			
		Applicant address (street or P.O. box)			
		City or town	State	ZIP code	
		Contact name (first and last)	Title	Phone number	Email address
		1.4	Is the applicant the facility's owner, operator, or both? (Check only one response.) <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both		
	1.5	To which entity should the NPDES permitting authority send correspondence? (Check only one response.) <input type="checkbox"/> Facility <input type="checkbox"/> Applicant <input checked="" type="checkbox"/> Facility and applicant (they are one and the same)			
Existing Environmental Permits	1.6	Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)			
		<b>Existing Environmental Permits</b>			
		<input type="checkbox"/> NPDES (discharges to surface water)	<input type="checkbox"/> RCRA (hazardous waste)	<input type="checkbox"/> UIC (underground injection control)	
		<input type="checkbox"/> PSD (air emissions)	<input type="checkbox"/> Nonattainment program (CAA)	<input type="checkbox"/> NESHAPs (CAA)	
		<input type="checkbox"/> Ocean dumping (MPRSA)	<input type="checkbox"/> Dredge or fill (CWA Section 404)	<input type="checkbox"/> Other (specify)	

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Collection System and Population Served	1.7	Provide the collection system information requested below for the treatment works.				
		<b>Municipality Served</b>	<b>Population Served</b>	<b>Collection System Type (indicate percentage)</b>	<b>Ownership Status</b>	
		New Development	600	<u>100</u> % separate sanitary sewer % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		TVA Facility	200	<u>100</u> % separate sanitary sewer % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				____ % separate sanitary sewer ____ % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				____ % separate sanitary sewer ____ % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		<b>Total Population Served</b>	800			
				<b>Separate Sanitary Sewer System</b>	<b>Combined Storm and Sanitary Sewer</b>	
		Total percentage of each type of sewer line (in miles)		100 %	0 %	
	Indian Country	1.8	Is the treatment works located in Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
1.9		Does the facility discharge to a receiving water that flows through Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Design and Actual Flow Rates	1.10	Provide design <i>and</i> actual flow rates in the designated spaces.			<b>Design Flow Rate</b>	
					0.100 mgd	
	<b>Annual Average Flow Rates (Actual)</b>					
	<b>Two Years Ago</b>		<b>Last Year</b>		<b>This Year</b>	
	0.00 mgd		0.00 mgd		0.00 mgd	
	<b>Maximum Daily Flow Rates (Actual)</b>					
<b>Two Years Ago</b>		<b>Last Year</b>		<b>This Year</b>		
0.00 mgd		0.00 mgd		0.00 mgd		
Discharge Points by Type	1.11	Provide the total number of effluent discharge points to waters of the United States by type.				
		<b>Total Number of Effluent Discharge Points by Type</b>				
		<b>Treated Effluent</b>	<b>Untreated Effluent</b>	<b>Combined Sewer Overflows</b>	<b>Bypasses</b>	<b>Constructed Emergency Overflows</b>
		1	0	0	0	0

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<b>Collection System and Population Served</b>	1.7	Provide the collection system information requested below for the treatment works.				
		<b>Municipality Served</b>	<b>Population Served</b>	<b>Collection System Type (indicate percentage)</b>	<b>Ownership Status</b>	
		New Development	600	<input checked="" type="checkbox"/> 100 % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		TVA Facility	200	<input checked="" type="checkbox"/> 100 % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				<input type="checkbox"/> % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				<input type="checkbox"/> % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		<b>Total Population Served</b>	800			
		Total percentage of each type of sewer line (in miles)		<b>Separate Sanitary Sewer System</b>	<b>Combined Storm and Sanitary Sewer</b>	
			100 %	0 %		
<b>Indian Country</b>	1.8	Is the treatment works located in Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	1.9	Does the facility discharge to a receiving water that flows through Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
<b>Design and Actual Flow Rates</b>	1.10	Provide design <i>and</i> actual flow rates in the designated spaces.			<b>Design Flow Rate</b>	
					0.500 mgd	
		<b>Annual Average Flow Rates (Actual)</b>				
		<b>Two Years Ago</b>		<b>Last Year</b>		<b>This Year</b>
		0.00 mgd		0.00 mgd		0.00 mgd
		<b>Maximum Daily Flow Rates (Actual)</b>				
<b>Two Years Ago</b>		<b>Last Year</b>		<b>This Year</b>		
0.00 mgd		0.00 mgd		0.00 mgd		
<b>Discharge Points by Type</b>	1.11	Provide the total number of effluent discharge points to waters of the United States by type.				
		<b>Total Number of Effluent Discharge Points by Type</b>				
		<b>Treated Effluent</b>	<b>Untreated Effluent</b>	<b>Combined Sewer Overflows</b>	<b>Bypasses</b>	<b>Constructed Emergency Overflows</b>
		1	0	0	0	0

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Collection System and Population Served	1.7	Provide the collection system information requested below for the treatment works.				
		<b>Municipality Served</b>	<b>Population Served</b>	<b>Collection System Type (indicate percentage)</b>		<b>Ownership Status</b>
		New Development	600	<u>100</u> % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		TVA Facility	200	<u>100</u> % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				<input type="checkbox"/> % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				<input type="checkbox"/> % separate sanitary sewer <input type="checkbox"/> % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		<b>Total Population Served</b>	800			
				<b>Separate Sanitary Sewer System</b>	<b>Combined Storm and Sanitary Sewer</b>	
	Total percentage of each type of sewer line (in miles)		100 %	0 %		
Indian Country	1.8	Is the treatment works located in Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	1.9	Does the facility discharge to a receiving water that flows through Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Design and Actual Flow Rates	1.10	Provide design and actual flow rates in the designated spaces.			<b>Design Flow Rate</b>	
					0.200 mgd	
		<b>Annual Average Flow Rates (Actual)</b>				
		<b>Two Years Ago</b>	<b>Last Year</b>	<b>This Year</b>		
		0.00 mgd	0.00 mgd	0.00 mgd		
		<b>Maximum Daily Flow Rates (Actual)</b>				
	<b>Two Years Ago</b>	<b>Last Year</b>	<b>This Year</b>			
	0.00 mgd	0.00 mgd	0.00 mgd			
Discharge Points by Type	1.11	Provide the total number of effluent discharge points to waters of the United States by type.				
		<b>Total Number of Effluent Discharge Points by Type</b>				
		<b>Treated Effluent</b>	<b>Untreated Effluent</b>	<b>Combined Sewer Overflows</b>	<b>Bypasses</b>	<b>Constructed Emergency Overflows</b>
	1	0	0	0	0	

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<b>Collection System and Population Served</b>	1.7	Provide the collection system information requested below for the treatment works.				
		<b>Municipality Served</b>	<b>Population Served</b>	<b>Collection System Type (indicate percentage)</b>		<b>Ownership Status</b>
		New Development	600	<u>100</u> % separate sanitary sewer ____ % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		TVA Facility	200	<u>100</u> % separate sanitary sewer ____ % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				____ % separate sanitary sewer ____ % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
				____ % separate sanitary sewer ____ % combined storm and sanitary sewer <input type="checkbox"/> Unknown	<input type="checkbox"/> Own <input type="checkbox"/> Own <input type="checkbox"/> Own	<input type="checkbox"/> Maintain <input type="checkbox"/> Maintain <input type="checkbox"/> Maintain
		<b>Total Population Served</b>	800			
		Total percentage of each type of sewer line (in miles)		<b>Separate Sanitary Sewer System</b>	<b>Combined Storm and Sanitary Sewer</b>	
			100 %	0 %		
<b>Indian Country</b>	1.8	Is the treatment works located in Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	1.9	Does the facility discharge to a receiving water that flows through Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
<b>Design and Actual Flow Rates</b>	1.10	Provide design <i>and</i> actual flow rates in the designated spaces.			<b>Design Flow Rate</b>	
					0.300 mgd	
	<b>Annual Average Flow Rates (Actual)</b>					
	<b>Two Years Ago</b>		<b>Last Year</b>		<b>This Year</b>	
	0.00 mgd		0.00 mgd		0.00 mgd	
	<b>Maximum Daily Flow Rates (Actual)</b>					
<b>Two Years Ago</b>		<b>Last Year</b>		<b>This Year</b>		
0.00 mgd		0.00 mgd		0.00 mgd		
<b>Discharge Points by Type</b>	1.11	Provide the total number of effluent discharge points to waters of the United States by type.				
		<b>Total Number of Effluent Discharge Points by Type</b>				
		<b>Treated Effluent</b>	<b>Untreated Effluent</b>	<b>Combined Sewer Overflows</b>	<b>Bypasses</b>	<b>Constructed Emergency Overflows</b>
		1	0	0	0	0

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Outfalls and Other Discharge or Disposal Methods

**Outfalls Other Than to Waters of the United States**

1.12 Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States?  
 Yes  No → SKIP to Item 1.14.

1.13 Provide the location of each surface impoundment and associated discharge information in the table below.

Surface Impoundment Location and Discharge Data		
Location	Average Daily Volume Discharged to Surface Impoundment	Continuous or Intermittent (check one)
	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

1.14 Is wastewater applied to land?  
 Yes  No → SKIP to Item 1.16.

1.15 Provide the land application site and discharge data requested below.

Land Application Site and Discharge Data			
Location	Size	Average Daily Volume Applied	Continuous or Intermittent (check one)
	acres	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
	acres	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
	acres	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

1.16 Is effluent transported to another facility for treatment prior to discharge?  
 Yes  No → SKIP to Item 1.21.

1.17 Describe the means by which the effluent is transported (e.g., tank truck, pipe).  
 Pipe

1.18 Is the effluent transported by a party other than the applicant?  
 Yes  No → SKIP to Item 1.20.

1.19 Provide information on the transporter below.

Transporter Data		
Entity name	Mailing address (street or P.O. box)	
City or town	State	ZIP code
Contact name (first and last)	Title	
Phone number	Email address	

Outfalls and Other Discharge or Disposal Methods Continued

1.20 In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility.

**Receiving Facility Data**

Facility name Browns Ferry Marina & Development WWTP		Mailing address (street or P.O. box) 17739 Hampton Cove Way	
City or town Athens		State AL	ZIP code 35611
Contact name (first and last) Braden Preston		Title Owner	
Phone number 256-508-2185		Email address braden@prestonengllc.com	
NPDES number of receiving facility (if any) <input type="checkbox"/> None		Average daily flow rate 0.500 mgd	

1.21 Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the United States (e.g., underground percolation, underground injection)?  
 Yes  No → SKIP to Item 1.23.

1.22 Provide information in the table below on these other disposal methods.

**Information on Other Disposal Methods**

Disposal Method Description	Location of Disposal Site	Size of Disposal Site	Annual Average Daily Discharge Volume	Continuous or Intermittent (check one)
		acres	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		acres	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		acres	gpd	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

Variance Requests

1.23 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)  
 Discharges into marine waters (CWA Section 301(h))  Water quality related effluent limitation (CWA Section 302(b)(2))  
 Not applicable

Contractor Information

1.24 Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?  
 Yes  No → SKIP to Section 2.

1.25 Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities.

**Contractor Information**

	Contractor 1	Contractor 2	Contractor 3
Contractor name (company name)			
Mailing address (street or P.O. box)			
City, state, and ZIP code			
Contact name (first and last)			
Phone number			
Email address			
Operational and maintenance responsibilities of contractor			



**SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))**

<b>Design Flow</b>	<b>Outfalls to Waters of the United States</b>					
	2.1	Does the treatment works have a design flow greater than or equal to 0.1 mgd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 3.				
<b>Inflow and Infiltration</b>	2.2	Provide the treatment works' current average daily volume of inflow and infiltration.	<b>Average Daily Volume of Inflow and Infiltration</b>			
			0.030 gpd			
		Indicate the steps the facility is taking to minimize inflow and infiltration. Design capacity will ultimately provide an accounting for I/I, 15% of ADF increase in WWTP process volume				
<b>Topographic Map</b>	2.3	Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
<b>Flow Diagram</b>	2.4	Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
<b>Scheduled Improvements and Schedules of Implementation</b>	2.5	Are improvements to the facility scheduled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 3.				
	Briefly list and describe the scheduled improvements.					
	1. To be scheduled upon permit issuance					
	2.					
	3.					
	4.					
	2.6	Provide scheduled or actual dates of completion for improvements.				
<b>Scheduled or Actual Dates of Completion for Improvements</b>						
	<b>Scheduled Improvement (from above)</b>	<b>Affected Outfalls (list outfall number)</b>	<b>Begin Construction (MM/DD/YYYY)</b>	<b>End Construction (MM/DD/YYYY)</b>	<b>Begin Discharge (MM/DD/YYYY)</b>	<b>Attainment of Operational Level (MM/DD/YYYY)</b>
	1.	1	10/01/2024	06/31/2025	03/31/2025	03/31/2025
	2.					
	3.					
	4.					
2.7	Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> None required or applicable					
Explanation: In process of completing design and obtaining permits						

**SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))**

<b>Description of Outfalls</b>	3.1	Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)		
		<b>Outfall Number</b> <u>1</u>	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
	State	Alabama		
	County	Limestone		
	City or town	Athens		
	Distance from shore	50 ft.	ft.	ft.
	Depth below surface	0 ft.	ft.	ft.
	Average daily flow rate	0.50 mgd	mgd	mgd
	Latitude	34° 41' 32.20" N or	° ' " N or	° ' " N or
	Longitude	87° 5' 10.54" N or	° ' " N or	° ' " <input type="checkbox"/>
<b>Seasonal or Periodic Discharge Data</b>	3.2	Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.4.		
	3.3	If so, provide the following information for each applicable outfall.		
		<b>Outfall Number</b> <u>1</u>	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
	Number of times per year discharge occurs	Continuous		
	Average duration of each discharge (specify units)	Continuous		
Average flow of each discharge	0.500 mgd	mgd	mgd	
Months in which discharge occurs	Jan - Dec			
<b>Diffuser Type</b>	3.4	Are any of the outfalls listed under Item 3.1 equipped with a diffuser? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.6.		
	3.5	Briefly describe the diffuser type at each applicable outfall.		
		<b>Outfall Number</b> _____	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____
<b>Waters of the U.S.</b>	3.6	Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 6.		



Receiving Water Description	3.7 Provide the receiving water and related information (if known) for each outfall.			
		Outfall Number <u>1</u>	Outfall Number _____	Outfall Number _____
	Receiving water name	Tennessee River		
	Name of watershed, river, or stream system			
	U.S. Soil Conservation Service 14-digit watershed code			
	Name of state management/river basin			
	U.S. Geological Survey 8-digit hydrologic cataloging unit code			
	Critical low flow (acute)	N/A cfs	cfs	cfs
	Critical low flow (chronic)	N/A cfs	cfs	cfs
	Total hardness at critical low flow	N/A mg/L of CaCO <sub>3</sub>	mg/L of CaCO <sub>3</sub>	mg/L of CaCO <sub>3</sub>
Treatment Description	3.8 Provide the following information describing the treatment provided for discharges from each outfall.			
		Outfall Number <u>1</u>	Outfall Number _____	Outfall Number _____
	Highest Level of Treatment (check all that apply per outfall)	<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input checked="" type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input checked="" type="checkbox"/> Other (specify) Chlorination	<input type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify)	<input type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify)
	Design Removal Rates by Outfall			
	BOD <sub>5</sub> or CBOD <sub>5</sub>	97.5 %	%	%
	TSS	94.0 %	%	%
	Phosphorus	<input checked="" type="checkbox"/> Not applicable %	<input type="checkbox"/> Not applicable %	<input type="checkbox"/> Not applicable %
	Nitrogen	<input checked="" type="checkbox"/> Not applicable %	<input type="checkbox"/> Not applicable %	<input type="checkbox"/> Not applicable %
Other (specify) Ammonia (NH <sub>3</sub> -N)	<input type="checkbox"/> Not applicable 90.0 %	<input type="checkbox"/> Not applicable %	<input type="checkbox"/> Not applicable %	

<b>Treatment Description Continued</b>	3.9	Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below. Chlorination contact chamber with hypochlorite tablets					
			<b>Outfall Number 1</b> _____	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____		
		Disinfection type	Chlorination				
		Seasons used	All				
		Dechlorination used?	<input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Effluent Testing Data</b>	3.10	Have you completed monitoring for all Table A parameters and attached the results to the application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
	3.11	Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.13.					
	3.12	Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.					
			<b>Outfall Number</b> _____	<b>Outfall Number</b> _____	<b>Outfall Number</b> _____		
			<b>Acute</b>	<b>Chronic</b>	<b>Acute</b>	<b>Chronic</b>	<b>Acute</b> <b>Chronic</b>
		Number of tests of discharge water					
		Number of tests of receiving water					
	3.13	Does the treatment works have a design flow greater than or equal to 0.1 mgd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.16.					
3.14	Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent? <input checked="" type="checkbox"/> Yes → Complete Table B, including chlorine. <input type="checkbox"/> No → Complete Table B, omitting chlorine.						
3.15	Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
3.16	Does one or more of the following conditions apply? <ul style="list-style-type: none"> <li>The facility has a design flow greater than or equal to 1 mgd.</li> <li>The POTW has an approved pretreatment program or is required to develop such a program.</li> <li>The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E).</li> </ul> <input type="checkbox"/> Yes → Complete Tables C, D, and E as applicable. <input checked="" type="checkbox"/> No → SKIP to Section 4.						
3.17	Have you completed monitoring for all applicable Table C pollutants and attached the results to this application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
3.18	Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No additional sampling required by NPDES permitting authority.						

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Effluent Testing Data Continued

3.19	Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → Complete tests and Table E and SKIP to Item 3.26.				
3.20	Have you previously submitted the results of the above tests to your NPDES permitting authority? <input type="checkbox"/> Yes <input type="checkbox"/> No → Provide results in Table E and SKIP to Item 3.26.				
3.21	Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results.				
	<table border="1"> <thead> <tr> <th>Date(s) Submitted (MM/DD/YYYY)</th> <th>Summary of Results</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Date(s) Submitted (MM/DD/YYYY)	Summary of Results		
Date(s) Submitted (MM/DD/YYYY)	Summary of Results				
3.22	Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.26.				
3.23	Describe the cause(s) of the toxicity:				
3.24	Has the treatment works conducted a toxicity reduction evaluation? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.26.				
3.25	Provide details of any toxicity reduction evaluations conducted.				
3.26	Have you completed Table E for all applicable outfalls and attached the results to the application package? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable because previously submitted information to the NPDES permitting authority.				

**SECTION 4. INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(j)(6) and (7))**

Industrial Discharges and Hazardous Wastes

4.1	Does the POTW receive discharges from SIUs or NSCIUs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.7.				
4.2	Indicate the number of SIUs and NSCIUs that discharge to the POTW.				
	<table border="1"> <thead> <tr> <th>Number of SIUs</th> <th>Number of NSCIUs</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Number of SIUs	Number of NSCIUs		
Number of SIUs	Number of NSCIUs				
4.3	Does the POTW have an approved pretreatment program? <input type="checkbox"/> Yes <input type="checkbox"/> No				
4.4	Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 4.6.				
4.5	Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7.				
4.6	Have you completed and attached Table F to this application package? <input type="checkbox"/> Yes <input type="checkbox"/> No				

Industrial Discharges and Hazardous Wastes Continued

4.7	Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.9.			
4.8	If yes, provide the following information:			
	<b>Hazardous Waste Number</b>	<b>Waste Transport Method</b> (check all that apply)		<b>Annual Amount of Waste Received</b>
		<input type="checkbox"/> Truck	<input type="checkbox"/> Rail	
		<input type="checkbox"/> Dedicated pipe	<input type="checkbox"/> Other (specify) _____	
		<input type="checkbox"/> Truck	<input type="checkbox"/> Rail	
		<input type="checkbox"/> Dedicated pipe	<input type="checkbox"/> Other (specify) _____	
		<input type="checkbox"/> Truck	<input type="checkbox"/> Rail	
		<input type="checkbox"/> Dedicated pipe	<input type="checkbox"/> Other (specify) _____	
4.9	Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 5.			
4.10	Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)? <input type="checkbox"/> Yes → SKIP to Section 5. <input checked="" type="checkbox"/> No			
4.11	Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

**SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(j)(3))**

CSO Map and Diagram

5.1	Does the treatment works have a combined sewer system? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 6.			
5.2	Have you attached a CSO system map to this application? (See instructions for map requirements.) <input type="checkbox"/> Yes <input type="checkbox"/> No			
5.3	Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.) <input type="checkbox"/> Yes <input type="checkbox"/> No			



CSO Outfall Description	5.4	For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)		
		CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
	City or town			
	State and ZIP code			
	County			
	Latitude	° ' " N or	° ' " N or	° ' " N or
	Longitude	° ' " N or	° ' " N or	° ' " N or
	Distance from shore	ft.	ft.	ft.
	Depth below surface	ft.	ft.	ft.
CSO Monitoring	5.5	Did the POTW monitor any of the following items in the past year for its CSO outfalls?		
		CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
	Rainfall	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	CSO flow volume	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	CSO pollutant concentrations	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Receiving water quality	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	CSO frequency	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Number of storm events	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
CSO Events in Past Year	5.6	Provide the following information for each of your CSO outfalls.		
		CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
	Number of CSO events in the past year	events	events	events
	Average duration per event	hours <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	hours <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	hours <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated
	Average volume per event	million gallons <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	million gallons <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	million gallons <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated
	Minimum rainfall causing a CSO event in last year	inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated

EPA Identification Number

NPDES Permit Number

Facility Name

Form Approved 03/05/19  
OMB No. 2040-0004

CSO Receiving Waters

5.7 Provide the information in the table below for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Receiving water name			
Name of watershed/ stream system			
U.S. Soil Conservation Service 14-digit watershed code (if known)	<input type="checkbox"/> Unknown	<input type="checkbox"/> Unknown	<input type="checkbox"/> Unknown
Name of state management/river basin			
U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	<input type="checkbox"/> Unknown	<input type="checkbox"/> Unknown	<input type="checkbox"/> Unknown
Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

## SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

6.1 In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2	
<input checked="" type="checkbox"/> Section 1: Basic Application Information for All Applicants	<input type="checkbox"/> w/ variance request(s)	<input type="checkbox"/> w/ additional attachments
<input checked="" type="checkbox"/> Section 2: Additional Information	<input checked="" type="checkbox"/> w/ topographic map <input checked="" type="checkbox"/> w/ additional attachments	<input checked="" type="checkbox"/> w/ process flow diagram
<input checked="" type="checkbox"/> Section 3: Information on Effluent Discharges	<input type="checkbox"/> w/ Table A <input type="checkbox"/> w/ Table B <input type="checkbox"/> w/ Table C	<input type="checkbox"/> w/ Table D <input type="checkbox"/> w/ Table E <input type="checkbox"/> w/ additional attachments
<input type="checkbox"/> Section 4: Industrial Discharges and Hazardous Wastes	<input type="checkbox"/> w/ SIU and NSCIU attachments <input type="checkbox"/> w/ additional attachments	<input type="checkbox"/> w/ Table F
<input type="checkbox"/> Section 5: Combined Sewer Overflows	<input type="checkbox"/> w/ CSO map <input type="checkbox"/> w/ CSO system diagram	<input type="checkbox"/> w/ additional attachments
<input checked="" type="checkbox"/> Section 6: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments	

## 6.2 Certification Statement

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

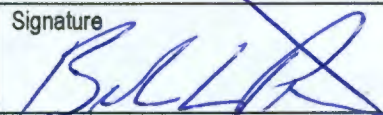
Name (print or type first and last name)

Braden L. Preston

Official title

Owner

Signature



Date signed

3/13/24

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MAR 25 2024



# DECENTRALIZED WASTE WATER TREATMENT PLANT

FOR

## PHASE 1 - BROWNS FERRY MARINA DEVELOPMENT

ATHENS, ALABAMA

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BEFORE YOU DIG"  
(205)-252-4444 OR 811

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WATER DIVISION

PRELIMINARY DESIGN  
NOT FOR CONSTRUCTION

Sheet List Table	
Sheet Number	Sheet Title
C1	COVER SHEET
C2	OVERALL SITE PLAN
C3	SITE PLAN -- WWTP
C4	OVERALL PLAN VIEW OF WWTP
C5	WWTP PROFILE AND SECTION VIEW



KEY MAP

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PROJECT LOCATION



LEGEND

UTILITY NOTES

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS CONTRACTOR SHALL ALSO REQUEST THE LOCAL CABLE T.V. COMPANY FOR LOCATION OF THEIR FACILITIES

LOCATION REQUESTS SHOULD BE MADE TO THE PUBLIC WORKS DEPARTMENT FOR WATER, SANITARY AND STORM SEWERS.

ANY REVISIONS TO THE APPROVED ENGINEERING PLANS MUST BE REVIEWED AND APPROVED BY THE GOVERNING AGENCIES, OWNER, AND THE ENGINEER OF RECORD BEFORE ANY WORK IS PERFORMED REGARDING THE REVISED ITEMS.

DUTY TO INDEMNIFY

THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS OWNER, ENGINEER, CITY AND THEIR RESPECTIVE BOARD MEMBERS, REPRESENTATIVES, AGENTS, AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY GROWING OUT OF, OR INCIDENTAL TO, THE PERFORMANCE OF THE WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ALABAMA AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. THIS OBLIGATION INCLUDES BUT IS NOT LIMITED TO: THE ALABAMA LAWS REGARDING STRUCTURAL WORK, AND REGARDING THE PROTECTION OF ADJACENT LANDOWNERS IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OR ADHERENCES TO SWPPP PLAN & NPDES PERMIT. CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

PROJECT TEAM

CLIENT: PRESTON ENGINEERING & CONSTRUCTION, LLC  
17739 HAMPTON COVE WAY  
ATHENS, AL 35611

CONTACT: ATTN: MR. BRADEN PRESTON, PE  
PHONE: (256) 508-2185

ENGINEER: **Landmark**  
ENGINEERING GROUP  
201 W. 2ND AVENUE, SUITE 201  
COAL VALLEY, IL 61240

CONTACT: MR. MICHAEL SHAMSIE, P.E.  
PHONE: (309) 755-3400



I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ALABAMA.

*Michael R. Shamsie* 3/9/2024  
MICHAEL R. SHAMSIE, P.E. DATE  
AL. P.E. #37430 ALL SHEET COVERED BY SEAL  
EXP. DATE 12/31/2025  
IF SEAL AND/OR SIGNATURE IS NOT A CONTRASTING COLOR, THIS DOCUMENT IS NOT AN ORIGINAL.

NO.	REVISIONS	DESCRIPTION	DATE

**Landmark**  
ENGINEERING GROUP  
201 W. 2ND AVENUE, SUITE 201  
COAL VALLEY, IL 61240  
PHONE: (309) 755-3400  
FAX: (309) 755-6222  
CIVIL ENGINEERING AND LAND PLANNING  
ALABAMA DESIGN FIRM REGISTRATION NUMBER CA-5645-E



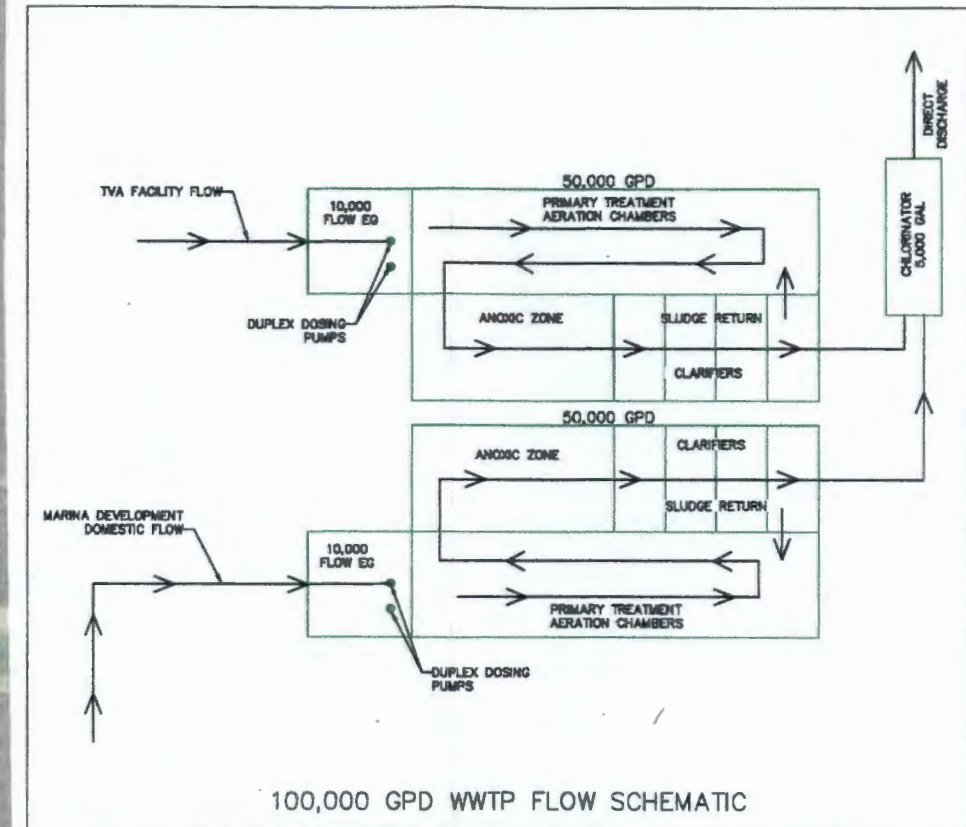
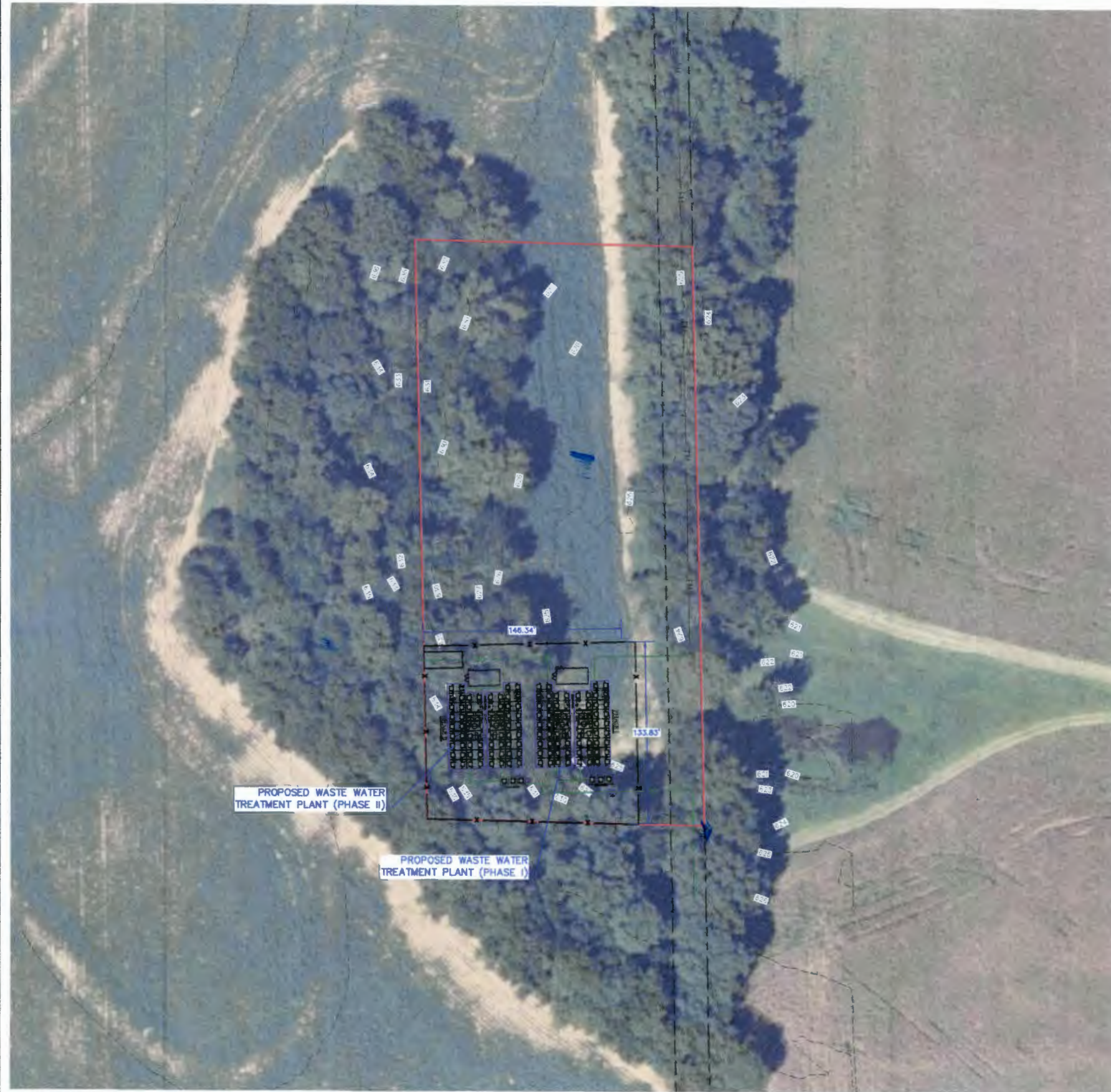
COVER SHEET  
PHASE 1 - BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA

DATE: 3/9/2024
DRAWN BY: HLG
DESIGNED BY: MRS
CHECKED BY: MRS
C1
01-24-1764



OVERALL SITE PLAN

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100,000 GPD WWTP FLOW SCHEMATIC

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*Michael Starnes*

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NO.	REVISIONS DESCRIPTION	DATE

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ENGINEERING GROUP  
201 W. 2ND AVENUE, SUITE 201  
1000 755-5400  
FAX (205) 755-6027  
CIVIL ENGINEERING AND LAND PLANNING  
ALABAMA DESIGN FIRM REGISTRATION NUMBER CA-06615-E



OVERALL SITE PLAN  
PHASE 1 - BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA

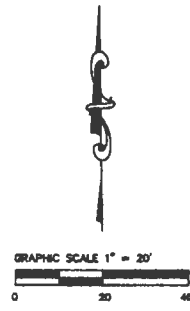
DATE: 3/7/2024
DRAWN BY: HIG
DESIGNED BY: MRS
CHECKED BY: MRS

C2  
01-24-1764

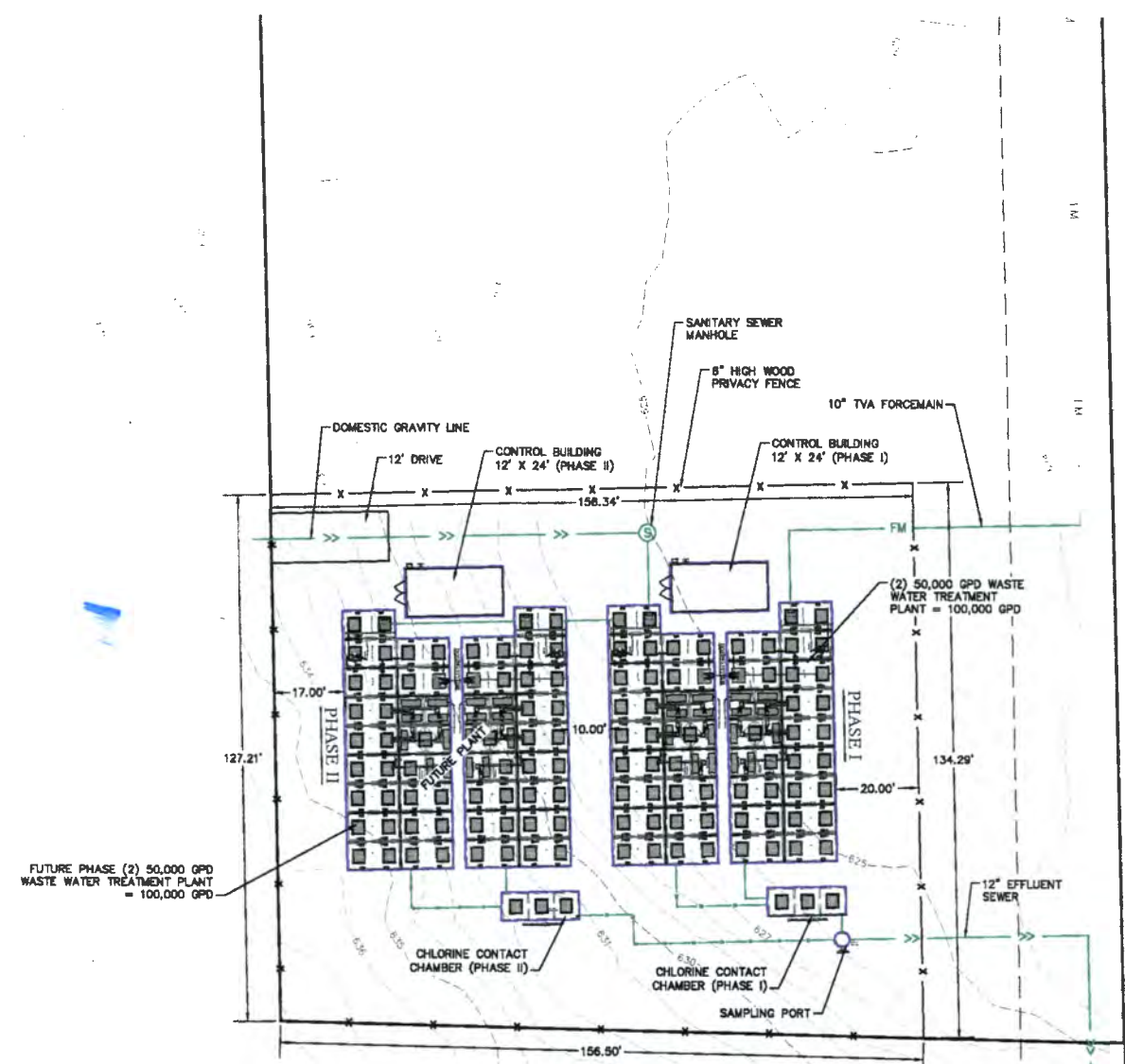


SITE PLAN - WWTP

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WATER DIVISION

**NANO2 OXYGEN INFUSION SYSTEM**  
NANO2 TECHNOLOGY MODEL IN-15 UNIT  
8.0# O2 PER HOUR CAPACITY  
OXYGEN GENERATOR REQUIRED TO PRODUCE 98% PURE O2

- NANO2 OXYGEN INFUSION TECHNOLOGY IS A CHEMICAL FREE PROCESS**
- HIGH "STANDARD OXYGEN TRANSFER EFFICIENCY" PROCESS
  - HIGH PROCESS EFFICIENCY DESIGN
  - HIGH VOLUME OF O2 TO KWH
  - UP TO 5 TIMES SOTE OF TYPICAL AERATION PROCESSES
  - ENERGY EFFICIENT DESIGN REDUCES ELECTRICAL POWER REQUIREMENTS
  - PLC MANAGED AUTOMATED OPERATION REDUCES OPERATOR INVOLVEMENT
  - "ON DEMAND" OPERATION TO REACTS TO CHANGING CONDITIONS
  - LOW SYSTEM INSTALLATION COSTS
  - MINIMAL ROTATING COMPONENTS REDUCES MAINTENANCE REQUIREMENTS
  - CORROSION RESISTANT MATERIALS FOR EXTENDED SERVICE LIFE OF NANO2 SYSTEM
  - NANO BUBBLES INCREASE O2 TRANSFER TO WASTE WATER
  - NANO BUBBLES STAY IN SUSPENSION, DON'T FLOAT TO SURFACE
  - NANO BUBBLES HAVE UNIFORM DISTRIBUTION THROUGHOUT THE TANK DEPTH
  - O2 LEVEL WILL BE IN THE RANGE OF 15 TO 20 MG/L IN THE FLOWEQUALIZATION TANK
  - O2 LEVELS WILL REMAIN HIGH IN FLOW ENTERING THE EXTENDED AERATION PLANT

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**PHASE I WWTP**

**FLOW EQUALIZATION TANK**

FLOW EQUALIZATION TANK VOLUME = 20,000 GALLONS, 20% OF GPD  
8 HOURS HOLDING TIME  
50% BOD5 REDUCTION WITH NANO2 OXYGEN INFUSION

**DESIGN DAILY FLOW PARAMETERS - PHASE I**  
100,000 GPD DECENTRALIZED WASTEWATER TREATMENT PLANT  
• 150 - HOMES @ 300 GPD = 45,000 GPD  
• TVA FACILITY @ 50,000 GPD  
• CLUB HOUSE ESTIMATED AT 5,000 GPD  
TOTAL ESTIMATED FLOW = 100,000 GPD

**ORGANIC LOADING**

- PROJECTED LOADING OF THE 100,000 GPD WWTP
- BOD5 PER DAY = 175 POUNDS PER DAY
- TSS = 175 POUNDS PER DAY
- NH3 = 87.5 POUNDS PER DAY
- PHOSPHOROUS = 44 POUNDS PER DAY
- 230V THREE (3) PHASE 60 HZ POWER SOURCE
- FLOW EQUALIZATION CHAMBERS OF APPROXIMATELY 20% OF WWTP VOLUME
- DUPLEX GRINDER PUMPS WITH CONTROL PANEL, AUDIO & LIGHT ALARM, VENTED STAND-PIPE, FLOATS & BRACKET
- ALL BLOWERS TO BE HOUSE IN SOUND ATTENUATION BUILDING, 75 DECIBEL RATING
- CHLORINE CONTACT CHAMBER WITH CHLORINATOR
- EFFLUENT DISCHARGE TO DRAINAGE WAY / TN RIVER
- PROPOSED EFFLUENT LIMITS BOD5 = 5 MG/L, TSS = 10 MG/L2 AND NH3 = 2 MG/L
- THE EFFLUENT LIMITS WILL BE PER THE ADEM PERMIT

**PHASE II WWTP**

**FLOW EQUALIZATION TANK**

FLOW EQUALIZATION TANK VOLUME = 20,000 GALLONS, 20% OF GPD  
8 HOURS HOLDING TIME  
50% BOD5 REDUCTION WITH NANO2 OXYGEN INFUSION

**DESIGN DAILY FLOW PARAMETERS - PHASE II**  
100,000 GPD DECENTRALIZED WASTEWATER TREATMENT PLANT  
• 300 - HOMES @ 300 GPD = 97,500 GPD  
TOTAL ESTIMATED FLOW = 97,500 GPD - USE 100,000 GPD

**ORGANIC LOADING**

- PROJECTED LOADING OF THE 100,000 GPD WWTP
- BOD5 PER DAY = 175 POUNDS PER DAY
- TSS = 175 POUNDS PER DAY
- NH3 = 87.5 POUNDS PER DAY
- PHOSPHOROUS = 44 POUNDS PER DAY
- 230V THREE (3) PHASE 60 HZ POWER SOURCE
- FLOW EQUALIZATION CHAMBERS OF APPROXIMATELY 20% OF WWTP VOLUME
- DUPLEX GRINDER PUMPS WITH CONTROL PANEL, AUDIO & LIGHT ALARM, VENTED STAND-PIPE, FLOATS & BRACKET
- ALL BLOWERS TO BE HOUSE IN SOUND ATTENUATION BUILDING, 75 DECIBEL RATING
- CHLORINE CONTACT CHAMBER WITH CHLORINATOR
- EFFLUENT DISCHARGE TO DRAINAGE WAY / TN RIVER
- PROPOSED EFFLUENT LIMITS BOD5 = 5 MG/L, TSS = 10 MG/L2 AND NH3 = 2 MG/L
- THE EFFLUENT LIMITS WILL BE PER THE ADEM PERMIT

NO.	REVISIONS DESCRIPTION	DATE

**Landmark**  
ENGINEERING GROUP  
201 W. 8th Avenue, Suite 201  
Coral Valley, IL 61840  
(815) 255-4400 FAX (815) 255-4522  
CIVIL ENGINEERING AND LAND PLANNING  
ALABAMA DESIGN FIRM REGISTRATION NUMBER CA-0616-E



SITE PLAN - WWTP  
PHASE 1 - BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA

DATE: 3/9/2024  
DRAWN BY: HLG  
DESIGNED BY: MRS  
CHECKED BY: MRS

C3  
01-24-1764



# OVERALL PLAN VIEW OF WWTP

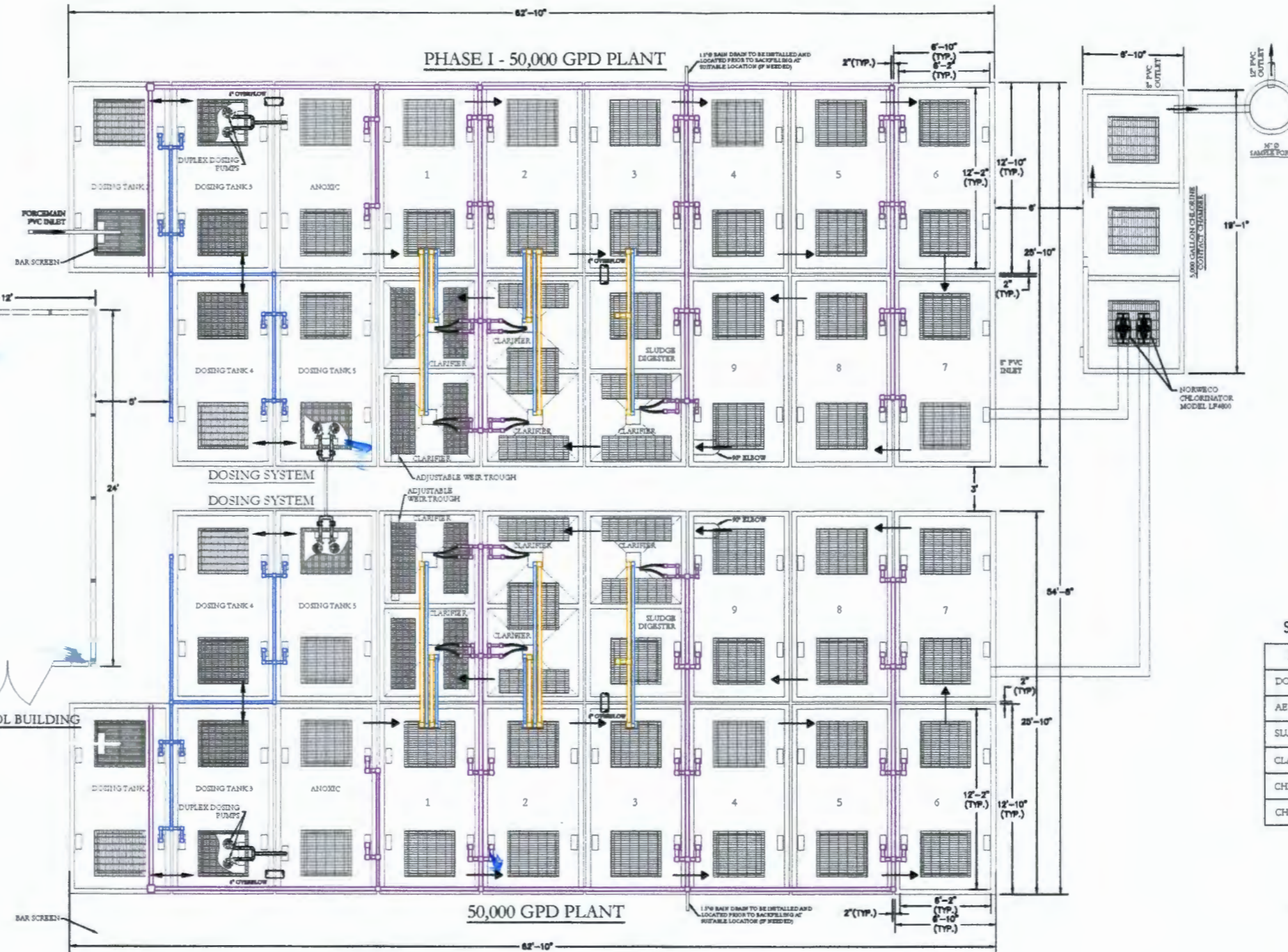
"CALL ALABAMA ONE CALL BEFORE YOU DIG"  
(205)-252-4444 OR 811

NO.	REVISIONS DESCRIPTION	DATE

**Landmark**  
ENGINEERING GROUP  
201 W. 2ND AVENUE, SUITE 201  
COAL VALLEY, AL 35040  
(205) 755-5400  
FAX (205) 755-8327  
CIVIL ENGINEERING AND LAND PLANNING  
ALABAMA DESIGN FIRM REGISTRATION NUMBER CA-0615-E



OVERALL PLAN VIEW OF WWTP  
PHASE 1 - BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA



PIPE SCHEDULE	
GALV. AERATION	—
DOSEING AERATION	—
2" SCH.40 PVC SKIMMER	—
1" SCH.40 PVC SLUDGE RETURN	—

STANDARD LAYOUT - 50,000 GPD GAL. SYSTEM	
STRUCTURES/ITEMS	SIZE/MODEL
DOSEING TANKS (4 TANKS)	20,000 GALLON
AERATION TANKS (9 TANKS)	45,000 GALLON
SLUDGE DIGESTER (10 TANKS)	5,000 GALLON
CLARIFIER TANKS (2.5 TANKS)	7,500 GALLON
CHLORINATOR	(1) NORWECO MODEL LF4800
CHLORINE CONTACT CHAMBER	5,000 GALLON

- NOTES
1. APPROVED SUBMITTALS REQUIRED PRIOR TO CONSTRUCTION.
  2. ALL STRUCTURES ARE SUBJECT TO BE RE-LOCATED DEPENDING ON THE SITE LAND RESTRICTIONS/ CONDITIONS.
  3. THE 20,000 GALLON DOSEING SYSTEM SHALL BE HYDRAULICALLY LINKED WITH WATERTIGHT BOOTED CROSSOVERS.
  4. FINAL LOCATION OF CONTROL PANELS AND BLOWERS MAY DEVIATE BASED ON FIELD CONDITIONS.

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DATE: 3/9/2024  
DRAWN BY: HLG  
DESIGNED BY: MRS  
CHECKED BY: MRS

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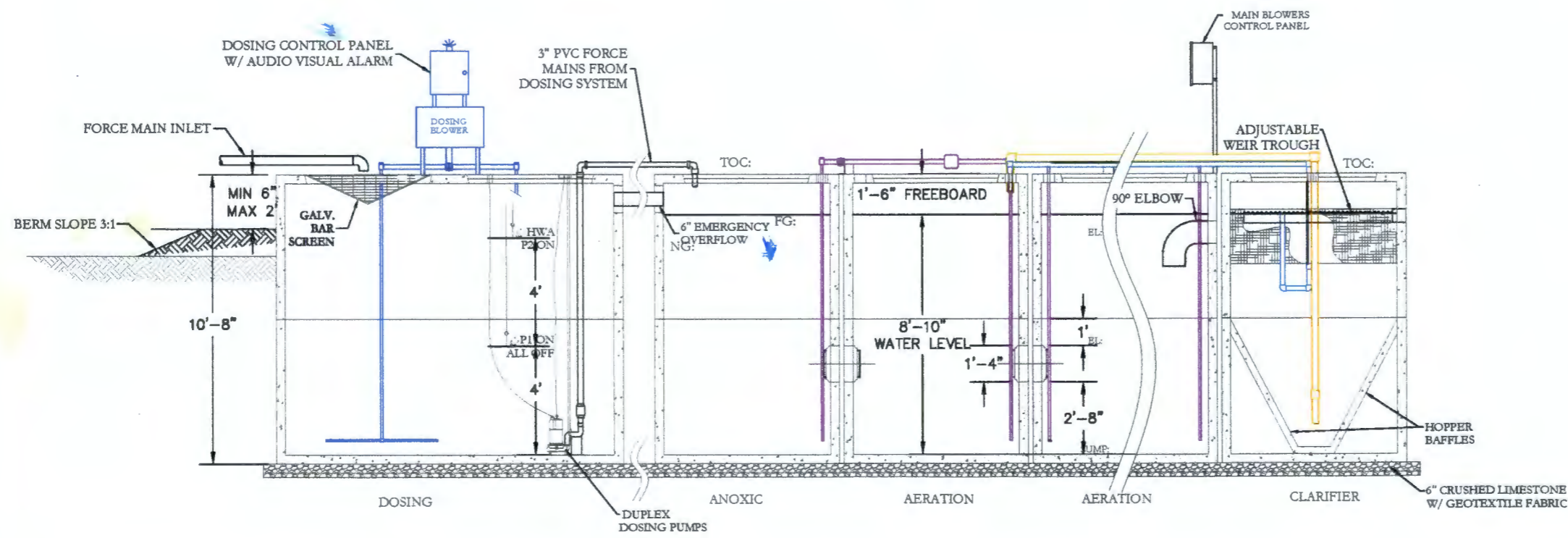
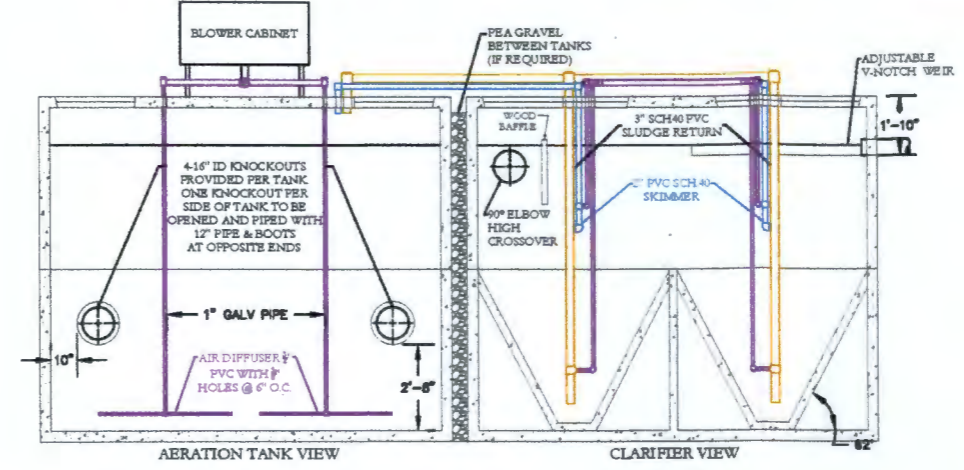
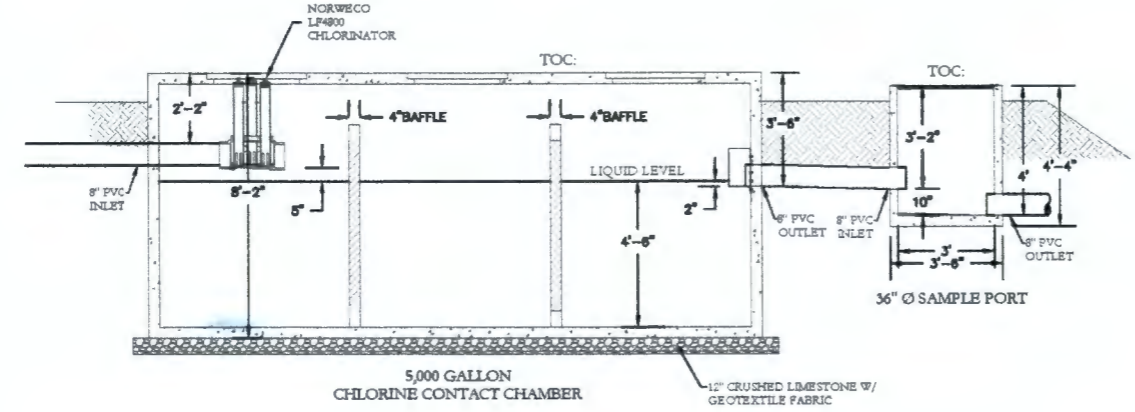
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# WWTP PROFILE AND SECTION VIEW

"CALL ALABAMA ONE CALL BEFORE YOU DIG"  
 (205)-252-4444 OR 811



*Michael R. Shamble*  
 ENGINEER



- DOSING SYSTEM NOTES:**
1. THE DOSING SYSTEM IS HYDRAULICALLY LINKED WITH WATER TIGHT BOOTED CROSSOVERS.
  2. THE DOSING SYSTEM WILL REQUIRE A DEDICATED BLOWER SYSTEM (SIMPLEX/DUPLEX).
  3. SYSTEM WILL BE LIGHTLY AERATED TO AVOID GOING SEPTIC AT 15 CFM/CELL.
  4. CONTROL PANEL TO INCLUDE DOSING TIMER WITH ALT. RELAY.
  5. PUMPS WILL CYCLE ON/OFF WITH TIMERS AND P1 FLOAT TURNS SYSTEM ON. THE CYCLE WILL PROVIDE FLOW AT THE SYSTEM'S DAF.

- GENERAL NOTES:**
1. THE DESIGN IS PRELIMINARY AND SHALL NOT BE USED FOR CONSTRUCTION PRIOR TO APPROVED SUBMITTALS.
  2. PLAN & HYDRAULIC PROFILE ACCOMMODATE FOR TERTIARY FILTER, IF REQUIRED AT LATER DATE.
  3. THE ABOVE PROFILE VIEW IS A DIAGRAM OF THE SYSTEM AND IS REVOLVED FOR CLARITY OF THE HYDRAULIC FLOW.
  4. FINAL LOCATION OF CONTROL PANELS AND BLOWERS MAY DEVIATE BASED ON FIELD CONDITIONS.

PIPE SCHEDULE	
GALV. AERATION	
2" SCH40 PVC SKIMMER	
3" SCH40 PVC SLUDGE RETURN	
GALV. DOSING AERATION	

**PRELIMINARY DESIGN  
 NOT FOR CONSTRUCTION**

NO.	REVISIONS	DESCRIPTION	DATE

**Landmark**  
 ENGINEERING GROUP  
 201 W. 2ND AVENUE, SUITE 201  
 (205) 252-4444  
 CIVIL ENGINEERING AND LAND PLANNING  
 ALABAMA DESIGN FIRM REGISTRATION NUMBER CA-6615-E



**WWTP PROFILE AND SECTION VIEW  
 PHASE 1 - BROWNS FERRY MARINA DEV. - WWTP  
 ATHENS, ALABAMA**

DATE: 3/5/2024  
 DRAWN BY: HUG  
 DESIGNED BY: MRS  
 CHECKED BY: MRS

**C5**  
 01-24-1764



JUL 24 2024

MUNICIPAL SECTION

# DECENTRALIZED WASTE WATER TREATMENT PLANT FOR BROWNS FERRY MARINA DEVELOPMENT ATHENS, ALABAMA

"CALL ALABAMA ONE CALL  
BEFORE YOU DIG"  
(205)-252-4444 OR 811

- 1) ALL WORK SHALL COMPLY WITH THE APPLICABLE STANDARDS, SPECIFICATIONS AND ORDINANCES FOR CITY OF ATHENS, ALABAMA, AND THE ALABAMA DEPARTMENT OF TRANSPORTATION ("SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION") UNLESS OTHERWISE SPECIFIED IN CASE OF A CONFLICT, THE CITY STANDARDS AND REQUIREMENTS SHALL GOVERN.
- 2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 3) NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE EXISTING UTILITIES AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 4) ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE MUNICIPALITY. ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 5) BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.
- 6) UPON AWARD OF THE CONTRACT AND WORK REQUIRED BY THE OWNER, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND FOR OTHER REQUIREMENTS ELIMINATING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE OWNER. MAINTENANCE BONDS AFTER COMPLETION MAY ALSO BE REQUIRED.
- 7) THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING UTILITY LOCATIONS, DEPTHS, AND ELEVATIONS IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DEFECTS WITH THE PROPOSED WORK. ANY CHANGES TO EXISTING UTILITIES AND / OR PLANS SHOULD BE REPORTED AT THE CONTRACTOR'S EXPENSE.
- 8) THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS 48 HOURS PRIOR TO START OF CONSTRUCTION. THEY WILL ALSO NOTIFY ALABAMA ONE-CALL AT (205) 252-4444 OR 811 AT LEAST 72 HOURS PRIOR TO STARTING WORK. ALL OTHER AGENCIES SHALL ALSO BE NOTIFIED AS REQUIRED.
- 9) REMOVED FURNISH, STORAGE, CURB AND GUTTER, ETC. SHALL BE PROVIDED AT OFF-SITE LOCATIONS PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS RESULT FROM HIS CONSTRUCTION OPERATIONS AT HIS ADDITIONAL EXPENSE TO THE OWNER.
- 10) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SOIL, SEWER, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO SAFETY AND PROTECT THE PUBLIC. ALL PHASES OF CONSTRUCTION SHALL BE MAINTAINED FROM DRAIN TO MAINT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS OCCUR AS AS DESIGNATED BY THE ENGINEER.
- 11) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 12) WHICHEVER THE PERFORMANCE OF WORK IS REQUIRED ON THE PLANS, AND HIS WORK IS INCLUDED IN THE CONTRACT FOR PAYMENT, THE WORK SHALL BE CONSIDERED ESSENTIAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 13) ALL EXISTING TRAFFIC SIGNALS, STREET LIGHTS, ETC. WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT MOVED OR REMOVED OR DAMAGED SHALL BE REPAIRED AND RESET BY THE CONTRACTOR AT LOCATION AS DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 14) ALL EXISTING TRAFFIC SIGNALS, STREET LIGHTS, ETC. WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT MOVED OR REMOVED OR DAMAGED SHALL BE REPAIRED AND RESET BY THE CONTRACTOR AT LOCATION AS DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 15) ALL PERMANENT TYPE PAVEMENTS OR PERMANENT IMPROVEMENTS WHICH ARE THE PROPOSED IMPROVEMENT AND ARE NOT SHOWN ON THE PLANS SHALL BE REPAIRED AND RESET BY THE CONTRACTOR AT LOCATION AS DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 16) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 17) ALL EXISTING STRUCTURES (DRAINAGES, CATCH BASINS, VALVE BOXES, ETC.) SHALL BE ADAPTED TO MEET THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 18) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT HIS ADDITIONAL EXPENSE TO THE OWNER.
- 19) THE CITY OF ATHENS SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 20) THE CONTRACTOR MAY AT HIS OWN EXPENSE CONDUCT ANY SURFACE EXPLORATION HE DEEMS NECESSARY. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- 21) QUANTITIES AND PRICES FOR ALL MATERIALS AND LABOR SHALL BE BASED ON THE CURRENT MARKET PRICES AT THE TIME OF BIDDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THESE FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATHENS AT (205) 252-4444 OR 811 FOR UTILITY LOCATIONS AND THE LOCAL CABLE TV COMPANY FOR THE LOCATION OF THEIR FACILITIES.
- 22) REMOVAL OF ALL PAVEMENT, CURB AND GUTTER SHALL BE ACCOMPANIED BY SHEDDING IN ACCORDANCE WITH CITY, DOT STANDARD SPECIFICATIONS.
- 23) STORM SEWER SHALL BE INSTALLED PER CITY STANDARDS AND SPECIFICATIONS OR DOT SPECIFICATIONS.
- 24) STORM SEWER ADJUSTMENT AND PIPE OPENINGS SHALL BE NOTICED ON BOTH THE INSIDE AND OUT.

PRELIMINARY DESIGN  
NOT FOR CONSTRUCTION



KEY MAP

Sheet List Table	
Sheet Number	Sheet Title
C1	COVER SHEET
C2	O'ERALL SITE PLAN
C3	SITE PLAN - WWTP
C4	O'ERALL PLAN VIEW OF WWTP
C5	WWTP PROFILE AND SECTION VIEW

PROJECT LOCATION



### UTILITY NOTES

JOINT UTILITY LOCATION INFORMATION FOR EXISTING UTILITIES SHOULD BE OBTAINED FROM THE PUBLIC UTILITIES DEPARTMENT FOR WATER, SANITARY AND STORM SEWERS.

ANY REVISIONS TO THE APPROVED ENGINEERING PLANS MUST BE REVIEWED AND APPROVED BY THE GOVERNING AGENCIES, OWNER, AND THE ENGINEER OF RECORD BEFORE ANY WORK IS PERFORMED.

### DUTY TO INDEMNIFY

THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS OWNER, ENGINEER, CITY AND THEIR RESPECTIVE BOARD MEMBERS, REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY GROWING OUT OF, OR INCIDENTAL TO, THE PERFORMANCE OF THE WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ALABAMA AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. THIS OBLIGATION INCLUDES BUT IS NOT LIMITED TO THE ALABAMA LAWS REGARDING STRUCTURAL WORK AND REGARDING THE PROTECTION OF ADJACENT LANDOWNERS IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OR ADHERENCE TO SUMP PLAN & WELLS PERMIT. CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

### PROJECT TEAM

CLIENT: PRESTON ENGINEERING & CONSTRUCTION, LLC  
17739 HAMPTON COVE WAY  
ATHENS, AL 35611

CONTACT: ATTN: MR. BRADEN PRESTON, PE  
PHONE: (256) 508-2185

ENGINEER: **Landmark**  
ENGINEERING GROUP  
201 W. 2ND AVENUE, SUITE 201  
COAL VALLEY, IL 61240

CONTACT: MR. MICHAEL SHAMSHIE, P.E.  
PHONE: (309) 755-3400

### LEGEND

NO.	REVISIONS	DATE

**Landmark**  
ENGINEERING GROUP  
201 W. 2ND AVENUE, SUITE 201  
COAL VALLEY, IL 61240  
(309) 755-3400  
CIVIL ENGINEERING AND LAND PLANNING  
ALABAMA LICENSE FROM REGISTRATION NUMBER CL-1960-B



COVER SHEET  
BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA



HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ALABAMA.

*Michael R. Shamsie* 7/24/2024  
DATE

MICHAEL R. SHAMSHIE, P.E. ALL SHEET COVERED BY SEAL  
AL, P.E. #27430  
EXP. DATE 12/31/2025  
IF SEAL AND/OR SIGNATURE IS NOT A CONTRASTING COLOR, THIS DOCUMENT IS NOT AN ORIGINAL.

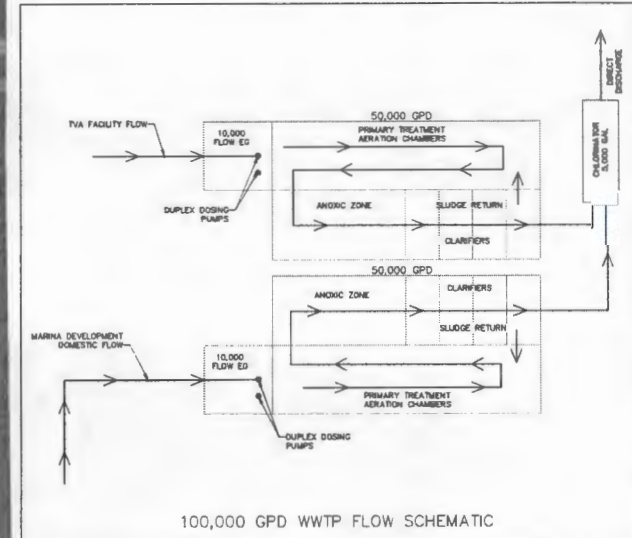
PLANT: 7/24/2024  
DESIGNED BY: MRS  
CHECKED BY: MRS

C1

01-24-1764

OVERALL SITE PLAN

"CALL ALABAMA ONE CALL  
BEFORE YOU DIG"  
(205)-252-4444 OR 811



NO.	REVISIONS	DESCRIPTION	DATE

**Landmark**  
ENGINEERING GROUP  
381 W. 2ND AVENUE, SUITE 204  
MONTICELLO, ALABAMA 35761  
CIVIL ENGINEERING AND LAND PLANNING  
ALABAMA LICENSE NO. 20000-0000-0000-0000-0000-0000-0000-0000-0000-0000

OVERALL SITE PLAN  
BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA

DATE: 7/24/2024
DESIGNER: JWG
DESIGNED BY: MBS
CHECKED BY: MBS

C2  
101-24-1764

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*Michael Brown*



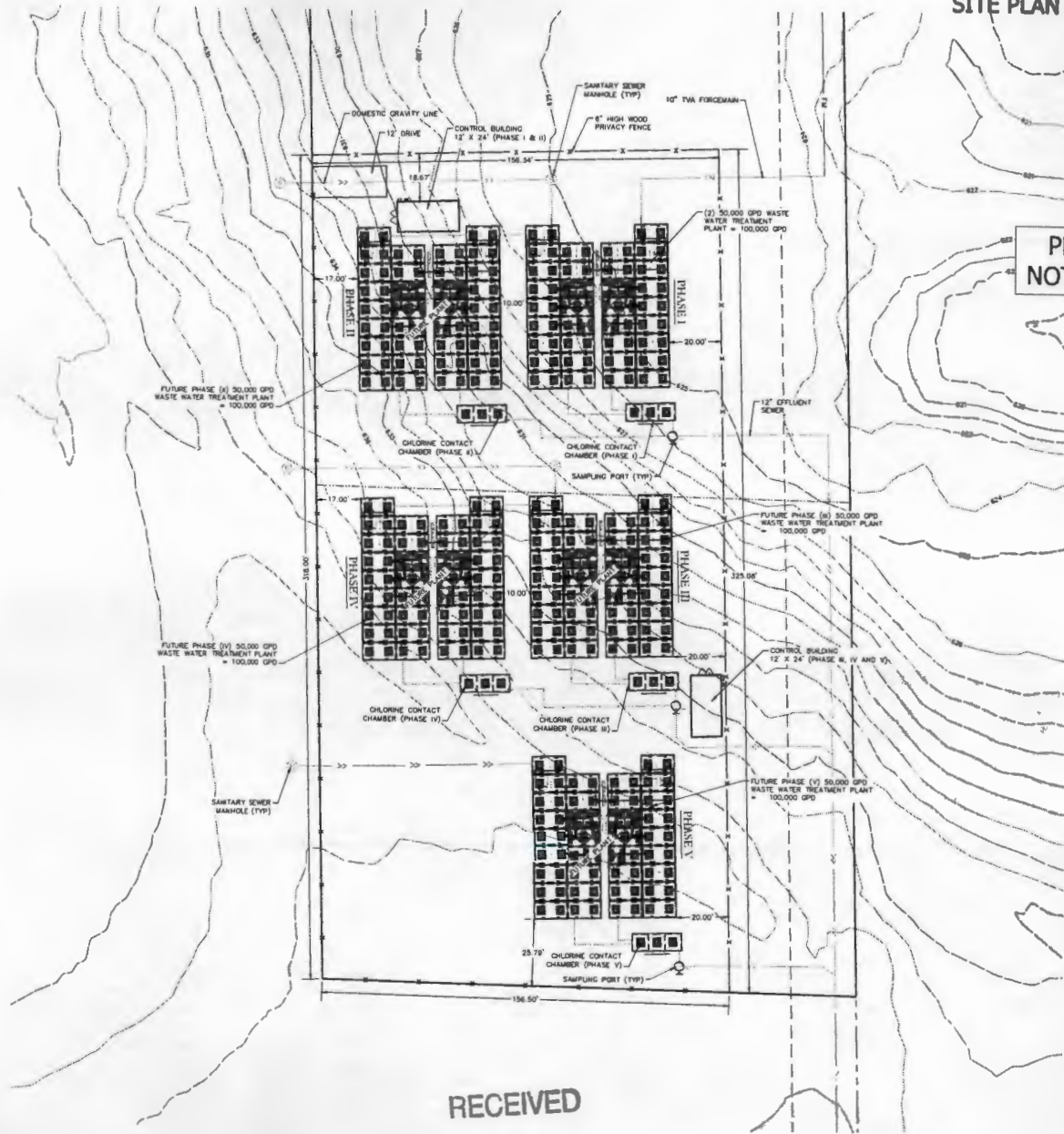
SITE PLAN - WWTP

"CALL ALABAMA ONE CALL  
BEFORE YOU DIG"  
(205)-252-4444 OR 811



*Mark D. Harris*

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**Landmark**  
ENGINEERING GROUP  
3015 W. UNIVERSITY BLVD. SUITE 201  
MONTGOMERY, ALABAMA 36117  
ALABAMA DESIGN FIRM REGISTRATION NUMBER CA-0619-E



SITE PLAN - WWTP  
BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA

DATE: 7/24/2024  
DRAWN BY: JLG  
DESIGNED BY: JHS  
CHECKED BY: JHS

C3

01-24-1764

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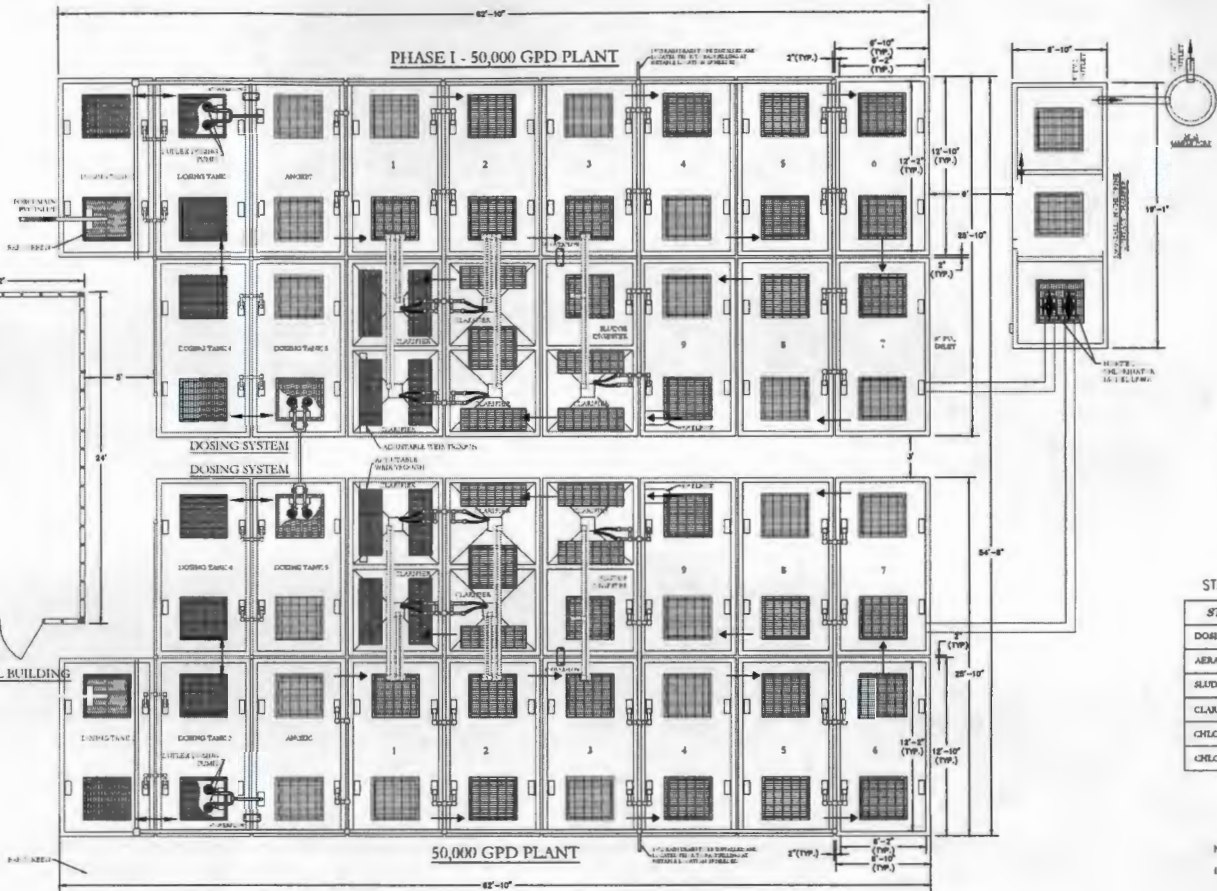
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OVERALL PLAN VIEW OF WWTP

"CALL ALABAMA ONE CALL  
BEFORE YOU DIG"  
(205)-252-4444 OR 811



PIPE SCHEDULE	
CLAY AERATION	2"
DOWING AERATION	2"
CLAY CLARIFIER	2"
CLAY DIGESTER	2"

STANDARD LAYOUT - 50,000 GPD GAL SYSTEM

STRUCTURES/ITEMS	SIZE/MODEL
DOWING TANKS (4 TANKS)	20,000 GALLON
AERATION TANKS (9 TANKS)	45,000 GALLON
SLUDGE DIGESTER (10 TANKS)	8,000 GALLON
CLARIFIER TANKS (5 TANKS)	7,500 GALLON
CHLORINATOR	(1) HOBASCO MODEL P400
CHLORINE CONTACT CHAMBER	5,000 GALLON

NOTES

- APPROVED SUBMITTALS REQUIRED PRIOR TO CONSTRUCTION.
- ALL STRUCTURES ARE SUBJECT TO BE RE-LOCATED DEPENDING ON THE SITE LAND RESTRICTIONS CONDITIONS.
- THE 8,000 GALLON DOWING SYSTEM SHALL BE HYDRAULICALLY LINKED WITH WATER TIGHT KNOTTED CROSSOVERS.
- FINAL LOCATION OF CONTROL PANELS AND BLOWERS MAY VARY BASED ON FIELD CONDITIONS.

NO.	REVISIONS	DESCRIPTION	DATE

OVERALL PLAN VIEW OF WWTP  
BROWNS FERRY MARINA DEV. - WWTP  
ATHENS, ALABAMA

DATE: 7/24/24
DESIGN BY: MS
DESIGNED BY: MS
CHECKED BY: MS
C4
01-24-1764

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JUL 24 2024  
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WWTP PROFILE AND SECTION VIEW

\*CALL ALABAMA ONE CALL  
 BEFORE YOU DIG\*  
 (205)-252-4444 OR 811



*Michael R. Danvers*

NO.	REVISIONS	DESCRIPTION	DATE

**Landmark**  
 ENGINEERING GROUP  
 2515 BRADSHAW BLVD. SUITE 100  
 ATHENS, ALABAMA 35614  
 (205) 833-1111  
 CIVIL ENGINEERING AND LAND PLANNING  
 ALABAMA DESIGN FIRM REGISTRATION NUMBER CE-1861-E

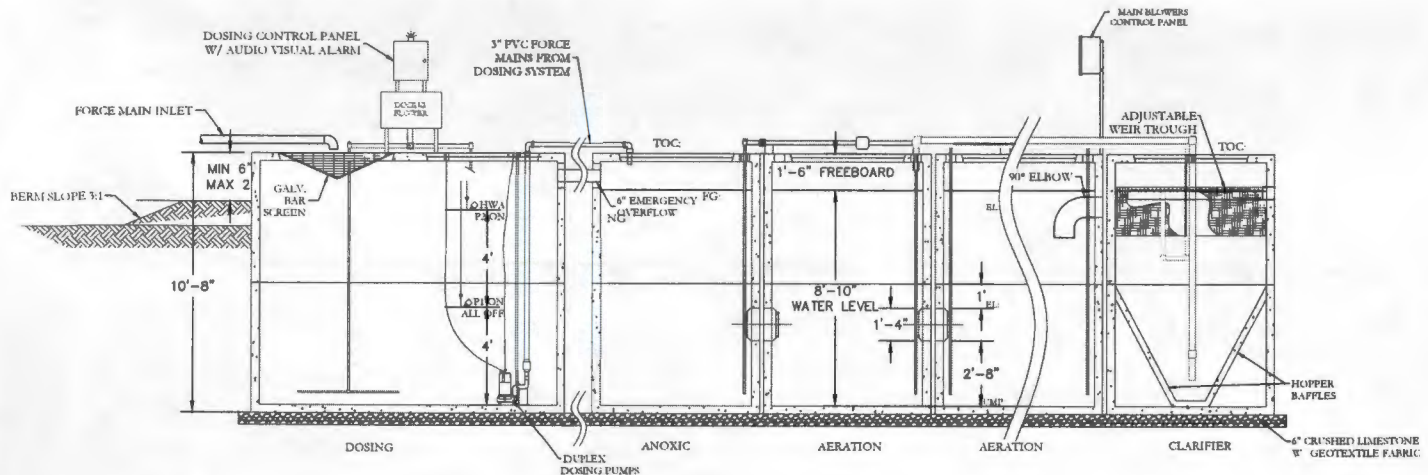
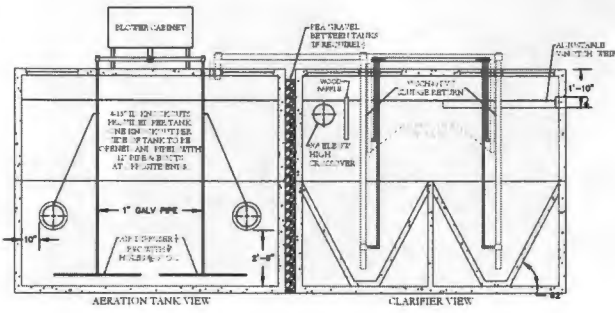
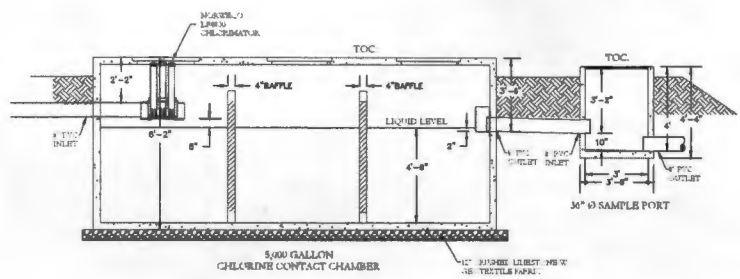


WWTP PROFILE AND SECTION VIEW  
 BROWNS FERRY MARINA DEV. - WWTP  
 ATHENS, ALABAMA

DATE	7/27/2024
DRAWN BY	JMS
DESIGNED BY	JMS
CHECKED BY	JMS

C5

01-24-1764



- DOSING SYSTEM NOTES:**
1. THE DOSING SYSTEM IS HYDRAULICALLY LINKED WITH WATER TIGHT BOOTED CROSSOVERS.
  2. THE DOSING SYSTEM WILL REQUIRE A DEDICATED BLOWER SYSTEM (SIMPLEX DUPLEX).
  3. SYSTEM WILL BE LIGHTLY AERATED TO AVOID GOING SEPTIC AT 15 CFM CELL.
  4. CONTROL PANEL TO INCLUDE DOSING TIMER WITH ALT. RELAY.
  5. PUMPS WILL CYCLE ON / OFF WITH TIMERS AND PI FLOAT TURNS SYSTEM ON THE CYCLE WILL PROVIDE FLOW AT THE SYSTEM DAP.

- GENERAL NOTES:**
1. THE DESIGN IS PRELIMINARY AND SHALL NOT BE USED FOR CONSTRUCTION PRIOR TO APPROVED SUBMITTALS.
  2. PLAN & HYDRAULIC PROFILE ACCOMMODATE FOR TERTIARY FILTER, IF REQUIRED AT LATER DATE.
  3. THE ABOVE PROFILE VIEW IS A DIAGRAM OF THE SYSTEM AND IS REVOLVED FOR CLARITY OF THE HYDRAULIC FLOW.
  4. FINAL LOCATION OF CONTROL PANELS AND BLOWERS MAY DEVIATE BASED ON FIELD CONDITIONS.

PIPE SCHEDULE	
GALV. AERATION	
3\"/>	

**PRELIMINARY DESIGN  
 NOT FOR CONSTRUCTION**

## Lee, Sandra

---

**From:** Braden Preston <braden@prestonengllc.com>  
**Sent:** Wednesday, June 12, 2024 8:18 AM  
**To:** Lee, Sandra  
**Subject:** Re: Brown Springs Permit application  
**Attachments:** EPA Part 2 Form 2S.pdf; EPA 3510-2A - Browns Ferry Marina (3-08-2024).pdf

Sandra – good afternoon,  
Please see attached updated forms with information requested.  
In regard to item 7 below.

The WWTP system can be upgraded 50k gpd at a time. Our intent is to upgrade the plant 100k gpd. However, we would like to have the flexibility in the future to upgrade 50k gpd as the market or demand supports. If this is an issue please let me know.

**Thank You,**  
**Braden Preston, P.E.**  
**Preston Engineering & Construction, LLC**  
Cell (256)-508-2185  
Address 17739 Hampton Cove Way  
Athens, Alabama 35611  
<http://www.prestonengllc.com/>

“At Preston Engineering & Construction, LLC, our sole purpose is to be grateful stewards of the livelihood with which our Creator has afforded us. This means treating others as we desire to be treated and diligently counting the cost in all that we say, do, and especially in how we conduct business and cultivate relationships.”

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**From:** Lee, Sandra <SLee@adem.alabama.gov>  
**Date:** Thursday, June 6, 2024 at 8:27 AM  
**To:** Braden Preston <braden@prestonengllc.com>  
**Subject:** Brown Springs Permit application

Hello Mr. Preston,

There are a few corrections and clarifications I need with regards to the permit application.

1. EPA Form 2S, page 7, please answer question 1.2.
2. EPA Form 2S, page 7, please answer question 1.6 and answer the rest of the questions as appropriate according to the directions.
3. EPA Form 2S, page 8, please answer question 1.12.
4. EPA Form 2S, page 9, please sign and date part 1.20.
5. EPA Form 2A, page 2, part 1.10 is the actual flow, not the Design Flow. My understanding is that the facility is not built yet, so there would be no actual flow.
6. EPA Form 2A, page 8, part 3.16, the application does not indicate the Permittee would be subject to any of the conditions. The definition of Pretreatment is in reference to SID or CID. The application indicates there are no industrial dischargers and the Design flow is below 1.0 MGD.
7. For the Flow Schematic, would be 0.5 MGD plant treatment plant layout be five of the 100,000 gallon/day plants? If so, please indicate this.



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)

NPDES INDIVIDUAL PERMIT APPLICATION

SUPPLEMENTARY INFORMATION FOR PUBLICLY-OWNED TREATMENT WORKS (POTW), OTHER TREATMENT WORKS TREATING DOMESTIC SEWAGE (TWTDS), AND PUBLIC WATER SUPPLY TREATMENT PLANTS

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

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

PURPOSE OF THIS APPLICATION

- Initial Permit Application for New Facility\*
Modification of Existing Permit
Revocation & Reissuance of Existing Permit
Initial Permit Application for Existing Facility\*
Reissuance of Existing Permit
\* An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.

SECTION A - GENERAL INFORMATION

1. Facility Name: Browns Ferry Marina & Development WWTP Facility County: Limestone

a. Operator Name: StructCon, LLC

b. Is the operator identified in A.1.a, the owner of the facility? [X] Yes [ ] No

If No, provide the following information:

Operator Name: \_\_\_\_\_

Operator Address (Street or PO Box): \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

Operator Status:

- Public-federal
Public-state
Public-other (please specify):
[X] Private
Other (please specify):

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

Daily WWTP operation, maintenance and effluent sampling, completion and submittal of DMRs, coordination with Lab on sampling and testing

c. Name of Permittee\* if different than Operator: StructCon, LLC

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

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

3. Facility Location (Front Gate): Latitude: 34°42'27.00"N Longitude: 87° 5'10.28"W

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

Name and Title: Braden Preston, Owner

Address: 17739 Hampton Cove Way

City: Athens State: Alabama Zip: 35611

Phone Number: 256-508-2185 Email Address: braden@prestonengllc.com

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5. Designated Facility/DMR Contact:

Name: Braden L. Preston Title: Owner

Phone Number: 256-508-2185 Email Address: braden@prestonengllc.com

6. Designated Emergency Contact:

Name: Braden L. Preston Title: Owner

Phone Number: 256-508-2185 Email Address: braden@prestonengllc.com

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

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

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

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**SECTION B – WASTEWATER DISCHARGE INFORMATION**

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

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

For each shared outfall, provide the following:

<u>Applicant's Outfall No.</u>	<u>Name of Other Permittee/Facility</u>	<u>NPDES Permit No.</u>	<u>Where is sample collected by Applicant?</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

- |                 |                    |   |  |   |
|-----------------|--------------------|---|--|---|
| <b>Current:</b> | Flow Metering      | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
|                 | Sampling Equipment | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| <b>Planned:</b> | Flow Metering      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            |
|                 | Sampling Equipment | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input type="checkbox"/> 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:

Hour meters on Lift Station for flow monitoring from TVA  
Hour meters on pumps @ WWTP Flow Eq Chambers recording flow into WWTP



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

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

Phase 2 - additional 200,000 to 300,000 GPD WWTP, similar to the Phase 1 WWTP

**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
Contained within WWTP, Periodic removal of solids and liquids from	No potential for release to environment
sludge holding chamber by Vaac Truck for off-site disposal	Removal of accumulated sludge and inert material from sludge holding chamber by Vac Truck to permitted disposal facility

\*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?
	No Industrial waste			<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No

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

If yes, please attach a copy of the ordinance.

**SECTION E – COASTAL ZONE INFORMATION**

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?  Yes  No  
 If yes, complete items E.1 – E.12 below:

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

**SECTION F – ANTI-DEGRADATION EVALUATION**

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

- Is this a new or increased discharge that began after April 3, 1991?  Yes  No  
 If yes, complete F.2 below. If no, go to Section G.
- Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in F.1?  Yes  No

If yes, do not complete this section.

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

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

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

The existing TVA facility waste water lagoons are not functioning properly and fail to meet effluent standards. The new WWTP will eliminate this adverse impact on the environment.



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

1 employee, licensed operator to perform daily checks of the WWTP operation, make adjustments as required and perform maintenance. Collect samples periodically as required by permit and provide to Lab for testing.

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

None

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

Estimated \$7,500-\$15,000 annually

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

This service will provide sanitary sewer access to the surrounding area. WWTP will provide an enhanced treatment of domestic water versus typical septic systems and produce an effluent with BOD5 @ 5 mg/l, TSS @ 7.5 mg/l, Nh3 @ 2 mg/l and DO @ 10 mg/l.

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

The Marina Facility and Condo development is currently being permitted through Tennessee Valley Authority for community recreational use. Limestone County Commission signed a formal resolution on 11/20/2023 to support the project & to encourage TVA's support. The WWTP is a vital part of supporting this project for recreational & economic development in Limestone County and surrounding areas. The existing TVA facility waste water lagoons are not functioning properly and fail to meet effluent standards. The new WWTP will eliminate this adverse impact on the environment.

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## SECTION G – EPA Application Forms

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

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

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## SECTION H – ENGINEERING REPORT/BMP PLAN REQUIREMENTS

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



**SECTION I – RECEIVING WATERS**

Outfall No.	Receiving Water(s)	303(d) Segment?	Included in TMDL?*
001	Tennessee River	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

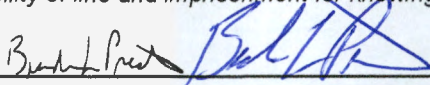
\*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);
- (3) Requested interim limitations, if applicable;
- (4) Date of final compliance with the TMDL limitations; and,
- (5) Any other additional information available to support requested compliance schedule.

**SECTION J – APPLICATION CERTIFICATION**

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

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."*

Signature of Responsible Official:  Date Signed: 03-13-2024

Name: Braden L. Preston Title: Owner

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

Mailing Address: 17739 Hampton Cove Way

City: Athens State: Alabama Zip: 35611

Phone Number: 256-508-2185 Email Address: braden@prestonengllc.com


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

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
  - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
  - (b) In the case of a partnership, by a general partner;
  - (c) In the case of a sole proprietorship, by the proprietor; or
  - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

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Form 2S NPDES		<b>U.S Environmental Protection Agency</b> <b>Application for NPDES Permit for Sewage Sludge Management</b> <b>NEW AND EXISTING TREATMENT WORKS TREATING DOMESTIC SEWAGE</b>
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**PRELIMINARY INFORMATION**

Does your facility currently have an effective NPDES permit or have you been directed by your NPDES permitting authority to submit a full Form 2S permit application?

Yes → Complete Part 2 of application package (begins p. 7).       No → Complete Part 1 of application package (below).

**PART 1 LIMITED BACKGROUND INFORMATION (40 CFR 122.21(c)(2)(ii))**

Complete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not applying for, an NPDES permit for a direct discharge to a surface body of water).

**PART 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A))**

<b>Facility Information</b>	1.1	Facility name Browns Ferry Marina & Development WWTP				
		Mailing address (street or P.O. box) 17739 Hampton Cove Way				
		City or town Athens		State AL	ZIP code 35611	
		Contact name (first and last) Braden Preston	Title Owner	Phone number (256) 508-2185	Email address braden@prestonengllc.com	
		Location address (street, route number, or other specific identifier) Nuclear Plant Rd.				<input type="checkbox"/> Same as mailing address
		City or town Athens, Limestone County		State AL	ZIP code 35611	
		1.2	<b>Ownership Status</b>			
<input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____						
<input type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____						

**PART 1, SECTION 2. APPLICANT INFORMATION (40 CFR 122.21(c)(2)(ii)(B))**

<b>Applicant Information</b>	2.1	Is applicant different from entity listed under Item 1.1 above?				
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 2.3 (Part 1, Section 2).				
		2.2	Applicant name			
			Applicant address (street or P.O. box)			
			City or town		State	ZIP code
2.3	Contact name (first and last)	Title	Phone number	Email address		
	Is the applicant the facility's owner, operator, or both? (Check only one response.)					
	<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both					
	To which entity should the NPDES permitting authority send correspondence? (Check only one response.)					
<input type="checkbox"/> Facility <input type="checkbox"/> Applicant <input checked="" type="checkbox"/> Facility and applicant (they are one and the same)						

**PART 1, SECTION 3. SEWAGE SLUDGE AMOUNT (40 CFR 122.21(c)(2)(ii)(D))**

<b>Sewage Sludge Amount</b>	3.1	Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, treated, used, and disposed of:			
		<b>Practice</b>			<b>Dry Metric Tons per 365-Day Period</b>
		Amount generated at the facility			RECEIVED  MAR 25 2024
		Amount treated at the facility			
		Amount used (i.e., received from off site) at the facility			
Amount disposed of at the facility					

**PART 1, SECTION 4. POLLUTANT CONCENTRATIONS (40 CFR 122.21(c)(2)(ii)(E))**

4.1

Using the table below or a separate attachment, provide existing sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR 503 for your facility's expected use or disposal practices. If available, base data on three or more samples taken at least one month apart and no more than 4.5 years old.

Check here if you have provided a separate attachment with this information.

Pollutant Concentrations

Pollutant	Concentration (mg/kg dry weight)	Analytical Method	Detection Level for Analysis
Arsenic			
Cadmium			
Chromium			
Copper			
Lead			
Mercury			
Molybdenum			
Nickel			
Selenium			
Zinc			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			
Other (specify)			



**PART 1, SECTION 5. TREATMENT PROVIDED AT YOUR FACILITY (40 CFR 122.21(c)(2)(ii)(C))**

<b>Treatment Provided at Your Facility</b>	5.1	For each sewage sludge use or disposal practice, indicate the amount of sewage sludge used or disposed of, the applicable pathogen class and reduction alternative, and the applicable vector attraction reduction option. Attach additional pages, as necessary.			
		<b>Use or Disposal Practice</b> (check one)	<b>Amount</b> (dry metric tons)	<b>Pathogen Class and Reduction Alternative</b>	<b>Vector Attraction Reduction Option</b>
		<input type="checkbox"/> Land application of bulk sewage <input type="checkbox"/> Land application of biosolids (bulk) <input type="checkbox"/> Land application of biosolids (bags) <input type="checkbox"/> Surface disposal in a landfill <input type="checkbox"/> Other surface disposal <input type="checkbox"/> Incineration		<input type="checkbox"/> Not applicable <input type="checkbox"/> Class A, Alternative 1 <input type="checkbox"/> Class A, Alternative 2 <input type="checkbox"/> Class A, Alternative 3 <input type="checkbox"/> Class A, Alternative 4 <input type="checkbox"/> Class A, Alternative 5 <input type="checkbox"/> Class A, Alternative 6 <input type="checkbox"/> Class B, Alternative 1 <input type="checkbox"/> Class B, Alternative 2 <input type="checkbox"/> Class B, Alternative 3 <input type="checkbox"/> Class B, Alternative 4 <input type="checkbox"/> Domestic septage, pH adjustment	<input type="checkbox"/> Not applicable <input type="checkbox"/> Option 1 <input type="checkbox"/> Option 2 <input type="checkbox"/> Option 3 <input type="checkbox"/> Option 4 <input type="checkbox"/> Option 5 <input type="checkbox"/> Option 6 <input type="checkbox"/> Option 7 <input type="checkbox"/> Option 8 <input type="checkbox"/> Option 9 <input type="checkbox"/> Option 10 <input type="checkbox"/> Option 11
5.2	For each of the use and disposal practices specified in Item 5.1, identify the treatment process(es) used at your facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge. (Check all that apply.)				
	<input type="checkbox"/> Preliminary operations (e.g., sludge grinding and dewatering) <input type="checkbox"/> Stabilization <input type="checkbox"/> Composting <input type="checkbox"/> Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization) <input type="checkbox"/> Heat drying <input type="checkbox"/> Methane or biogas capture and recovery	<input type="checkbox"/> Thickening (concentration) <input type="checkbox"/> Anaerobic digestion <input type="checkbox"/> Conditioning <input type="checkbox"/> Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons) <input type="checkbox"/> Thermal reduction <input type="checkbox"/> Other (specify) _____			

**PART 1, SECTION 6. SEWAGE SLUDGE SENT TO OTHER FACILITIES (40 CFR 122.21(c)(2)(ii)(C))**

<b>Sewage Sludge Sent to Other Facilities</b>	6.1	Does the sewage sludge from your facility meet the ceiling concentrations in Table 1 of 40 CFR 503.13, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), and one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)-(8)?		
		<input type="checkbox"/> Yes → SKIP to Part 1, Section 8 (Certification). <input type="checkbox"/> No		
	6.2	Is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Part 1, Section 7.		
	6.3	Receiving facility name		
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address
6.4	Which activities does the receiving facility provide? (Check all that apply.)			
	<input type="checkbox"/> Treatment or blending <input type="checkbox"/> Land application <input type="checkbox"/> Incineration <input type="checkbox"/> Composting	<input type="checkbox"/> Sale or give-away in bag or other container <input type="checkbox"/> Surface disposal <input type="checkbox"/> Other (describe)		

**PART 1, SECTION 7. USE AND DISPOSAL SITES (40 CFR 122.21(c)(2)(ii)(C))**

Provide the following information for each site on which sewage sludge from this facility is used or disposed of.

 Check here if you have provided separate attachments with this information.**Use and Disposal Sites**

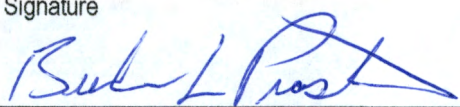
7.1	Site name or number				
	Mailing address (street or P.O. box)				
	City or town		State	ZIP code	
	Contact name (first and last)	Title	Phone number	Email address	
	Location address (street, route number, or other specific identifier)			<input type="checkbox"/> Same as mailing address	
	City or town		State	ZIP code	
	County		County code	<input type="checkbox"/> Not available	
7.2	Site type (check all that apply)				
<input type="checkbox"/>	Agricultural	<input type="checkbox"/>	Lawn or home garden	<input type="checkbox"/>	Forest
<input type="checkbox"/>	Surface disposal	<input type="checkbox"/>	Public contact	<input type="checkbox"/>	Incineration
<input type="checkbox"/>	Reclamation	<input type="checkbox"/>	Municipal solid waste landfill	<input type="checkbox"/>	Other (describe)

**PART 1, SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))****Checklist and Certification Statement**

8.1	In Column 1 below, mark the sections of Form 2S, Part 1, that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
	Column 1	Column 2
	<input checked="" type="checkbox"/> Section 1: Facility Information	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 2: Applicant Information	<input type="checkbox"/> w/ attachments
	<input type="checkbox"/> Section 3: Sewage Sludge Amount	<input type="checkbox"/> w/ attachments
	<input type="checkbox"/> Section 4: Pollutant Concentrations	<input type="checkbox"/> w/ attachments
	<input type="checkbox"/> Section 5: Treatment Provided at Your Facility	<input type="checkbox"/> w/ attachments
	<input type="checkbox"/> Section 6: Sewage Sludge Sent to Other Facilities	<input type="checkbox"/> w/ attachments
	<input type="checkbox"/> Section 7: Use and Disposal Sites	<input type="checkbox"/> w/ attachments
<input type="checkbox"/> Section 8: Checklist and Certification Statement		

EPA Identification Number	NPDES Permit Number	Facility Name
---------------------------	---------------------	---------------

Form Approved 03/05/19  
OMB No. 2040-0004

Checklist and Certification Statement Continued	8.2	<b>Certification Statement</b>		
		<p><i>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.</i></p>		
		Name (print or type first and last name)	Official title	Phone number
		Braden L. Preston	Owner	256-508-2185
		Signature	Date signed	
			3/13/24	

**PART 1 APPLICANTS STOP HERE.**

Submit completed application package to your NPDES permitting authority.

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**IND/MUN BRANCH  
WATER DIVISION**



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<p>APPLICANT'S SIGNATURE</p> <p><i>[Signature]</i></p>	<p>DATE</p> <p><i>[Date]</i></p>	<p>APPLICANT'S NAME</p> <p><i>[Name]</i></p>	<p>ADDRESS</p> <p><i>[Address]</i></p>
<p>APPLICANT'S PHONE NUMBER</p> <p><i>[Phone Number]</i></p>	<p>APPLICANT'S TITLE</p> <p><i>[Title]</i></p>	<p>APPLICANT'S ORGANIZATION</p> <p><i>[Organization]</i></p>	<p>APPLICANT'S CITY</p> <p><i>[City]</i></p>

PART 1 APPLICANT'S STOP FEE

Send completed application package to your TPOE per routing authority.

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MAY 1 2014

MID-MUN DRINK  
WATER DIVISION

<b>PART 2</b>	<b>PERMIT APPLICATION INFORMATION (40 CFR 122.21(q))</b>
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Complete this part if you have an effective NPDES permit or have been directed by the NPDES permitting authority to submit a full permit application. In other words, complete this part if your facility has, or is applying for, an NPDES permit. Part 2 is divided into five sections. Section 1 pertains to all applicants. The applicability of Sections 2 to 5 depends on your facility's sewage sludge use or disposal practices. See the instructions to determine which sections you are required to complete.

<b>PART 2, SECTION 1. GENERAL INFORMATION (40 CFR 122.21(q)(1-7) AND (q)(13))</b>
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General Information	All Part 2 applicants must complete this section.				
	<b>Facility Information</b>				
	1.1	Facility name Browns Ferry Marina & Development WWTP			
		Mailing address (street or P.O. box) 17739 Hampton Cove Way			
		City or town Athens	State AL	ZIP code 35611	Phone number 256.508.2185
		Contact name (first and last) Braden Preston	Title Owner	Email address braden@prestonengllc.com	
		Location address (street, route number, or other specific identifier) Browns Ferry Road			<input type="checkbox"/> Same as mailing address
		City or town Athens, Limestone County	State AL	ZIP code 35611	
	1.2	Is this facility a Class I sludge management facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	1.3	<b>Facility Design Flow Rate</b>	0.500 million gallons per day (mgd)		
	1.4	<b>Total Population Served</b>	2000		
	1.5	<b>Ownership Status</b>			
		<input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____ <input type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____			
	<b>Applicant Information</b>				
	1.6	Is applicant different from entity listed under Item 1.1 above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.8 (Part 2, Section 1).			
1.7	Applicant name				
	Applicant mailing address (street or P.O. box)				
	City or town	State	ZIP code		
	Contact name (first and last)	Title	Phone number	Email address	
1.8	Is the applicant the facility's owner, operator, or both? (Check only one response.) <input type="checkbox"/> Operator <input type="checkbox"/> Owner <input checked="" type="checkbox"/> Both				
1.9	To which entity should the NPDES permitting authority send correspondence? (Check only one response.) <input type="checkbox"/> Facility <input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Facility and applicant (they are one and the same)				

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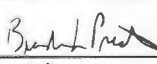
1.10	Facility's NPDES permit number		
	<input checked="" type="checkbox"/> Check here if you do not have an NPDES permit but are otherwise required to submit Part 2 of Form 2S.		
1.11	Indicate all other federal, state, and local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices below.		
	<input type="checkbox"/> RCRA (hazardous wastes)	<input type="checkbox"/> Nonattainment program (CAA)	<input type="checkbox"/> NESHAPs (CAA)
	<input type="checkbox"/> PSD (air emissions)	<input type="checkbox"/> Dredge or fill (CWA Section 404)	<input type="checkbox"/> Other (specify) _____ _____
	<input type="checkbox"/> Ocean dumping (MPRSA)	<input type="checkbox"/> UIC (underground injection of fluids)	
<b>Indian Country</b>			
1.12	Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occur in Indian Country?		
	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No → SKIP to Item 1.14 (Part 2, Section 1) below.	
1.13	Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs.		
<b>Topographic Map</b>			
1.14	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)		
	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
<b>Line Drawing</b>			
1.15	Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that will be employed during the term of the permit containing all the required information to this application? (See instructions for specific requirements.)		
	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
<b>Contractor Information</b>			
1.16	Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treatment, use, or disposal at the facility?		
	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No → SKIP to Item 1.18 (Part 2, Section 1) below.	
1.17	Provide the following information for each contractor.		
	<input type="checkbox"/> Check here if you have attached additional sheets to the application package.		
		<b>Contractor 1</b>	<b>Contractor 2</b>
	Contractor company name		
	Mailing address (street or P.O. box)		
	City, state, and ZIP code		
	Contact name (first and last)		
	Telephone number		
	Email address		

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General Information Continued	1.17 cont.	Responsibilities of contractor	Contractor 1	Contractor 2	Contractor 3
	<b>Pollutant Concentrations</b>				
	Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR 503 for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than 4.5 years old.				
	<input type="checkbox"/> Check here if you have attached additional sheets to the application package.				
	1.18	<b>Pollutant</b>	<b>Average Monthly Concentration</b> (mg/kg dry weight)	<b>Analytical Method</b>	<b>Detection Level</b>
		Arsenic	0		
		Cadmium	0		
		Chromium	0		
		Copper	0		
		Lead	0		
	Mercury	0			
	Molybdenum	0			
	Nickel	0			
	Selenium	0			
	Zinc	0			
<b>Checklist and Certification Statement</b>					
1.19	In Column 1 below, mark the sections of Form 2S, Part 2, that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing. Note that not all applicants are required to complete all sections or provide attachments. See Exhibit 2S-2 in the Instructions.				
	<b>Column 1</b>		<b>Column 2</b>		
	<input checked="" type="checkbox"/> Section 1 (General Information)	<input type="checkbox"/> w/ attachments			
	<input checked="" type="checkbox"/> Section 2 (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)	<input type="checkbox"/> w/ attachments			
	<input type="checkbox"/> Section 3 (Land Application of Bulk Sewage Sludge)	<input type="checkbox"/> w/ attachments			
	<input type="checkbox"/> Section 4 (Surface Disposal)	<input type="checkbox"/> w/ attachments			
	<input type="checkbox"/> Section 5 (Incineration)	<input type="checkbox"/> w/ attachments			
1.20	<b>Certification Statement</b>				
	<i>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.</i>				
	Name (print or type first and last name) Braden Preston	Official title Owner			
	Signature 	Date signed 06-08-2024			
	Telephone number 256.508.2185				
Upon the request of the NPDES permitting authority, you must submit any other information the authority deems necessary to assess sewage sludge use or disposal practices at your facility and identify appropriate permitting requirements.					

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**PRESTON**  
ENGINEERING AND CONSTRUCTION, LLC  
17719 Hamden Cove Way  
Albany AL, 35011  
356-508-2185  
preston@prestoneng.com

Rev	Description	Date
1		
2		
3		
4		
5		

Project Name: Browns Ferry Sewer  
Drawing Title: Master Site Plan  
Project Location: Nuclear Plant Rd, AL

Date: 03-08-24  
Drawn By: BLP  
Approved By:  
Scale: As Shown

Job Number  
1000 - 101  
Sheet Number  
1 OF