



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: ENVIRO SERVICES, L.L.C.
8000 LIBERTY PARKWAY, SUITE 114
VESTAVIA HILLS, ALABAMA 35242

FACILITY LOCATION: LIBERTY PARK WRRF (1.15 MGD)
13059 LIBERTY PARKWAY (1.6 MGD)
VESTAVIA HILLS, ALABAMA
JEFFERSON COUNTY

PERMIT NUMBER: AL0067814

RECEIVING WATERS: Groundwater (Outfalls 0013, 0053, and 0054)
UT to Gumsuck Branch (Outfalls 0201, 0202, 006S, 015S)
UT to Fleming Branch (Outfall 007S)
Coal Branch (Outfalls 008S, 009S, 010S, 011S, 012S, 013S, and 014S)
Gumsuck Branch (Outfall 016S)
Cahaba River (Outfalls 017S and 019S)
UT to Cahaba River (Outfall 018S)

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: MARCH 26, 2013

EFFECTIVE DATE: APRIL 1, 2013

EXPIRATION DATE: MARCH 31, 2018

MODIFICATION ISSUANCE DATE:

MODIFICATION EFFECTIVE DATE:

Draft

**MUNICIPAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT**

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PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. Outfall 0013 Discharge Limits - Sprayfield

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 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	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH	*****	*****	*****	*****	6.0 S.U.	9.0 S.U.	*****	E	GRAB	D	*****
Solids, Total Suspended	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	*****	I	COMP24	D	*****
00530 G 0 0	lbs/day	lbs/day	mg/l	mg/l	mg/l	mg/l	*****				
Solids, Total Suspended	REPORT	REPORT	30.0	45.0	*****	*****	*****	E	GRAB	D	*****
00530 I 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Total (As N)	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	*****	E	GRAB	D	*****
00600 I 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Ammonia Total (As N)	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	*****	E	GRAB	D	*****
00610 I 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Nitrate Total (As N)	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	*****	E	GRAB	D	*****
00620 I 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Kjeldahl Total (As N)	REPORT	REPORT	20.0	30.0	*****	*****	*****	E	GRAB	D	*****
00625 I 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****	E	GRAB	D	*****
Phosphorus, Total (As P)	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	*****	E	GRAB	D	*****
00665 I 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****	E	GRAB	D	*****
Flow, In Conduit or Thru Treatment Plant	REPORT	*****	*****	*****	*****	REPORT	*****	I	CONTIN	A	*****
50050 G 0 0	MGD	MGD	MGD	MGD	MGD	MGD	*****	(See Note 5)			
Flow, In Conduit or Thru Treatment Plant	REPORT	*****	*****	*****	*****	REPORT	*****	E	CONTIN	A	*****
50050 I 0 0	MGD	MGD	MGD	MGD	MGD	MGD	*****	(See Note 6)			
E. Coli	*****	*****	126	*****	*****	487	*****	E	GRAB	D	*****
51040 I 0 0	col/100mL	col/100mL	col/100mL	col/100mL	col/100mL	col/100mL	*****	E	GRAB	D	*****
BOD, Carbonaceous 05 Day, 20C	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	*****	I	COMP24	D	*****
80082 G 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****				
BOD, Carbonaceous 05 Day, 20C	REPORT	REPORT	45.0	67.5	*****	*****	*****	E	GRAB	D	*****
80082 I 0 0	lbs/day	lbs/day	mg/l	mg/l	*****	*****	*****				

* See Part II.C.1. (Bypass); Part II.C.2. (Upset); Part IV.D (Other Requirements for Land Application)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration

from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week F - 2 days per month

B - 5 days per week G - 1 day per month

C - 3 days per week H - 1 day per quarter

D - 2 days per week J - Annual

E - 1 day per week Q - For Effluent Toxicity

Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April - October)

W = Winter (November - March)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

(5) Influent flow shall be measured at the influent to the treatment plant or at the influent to the holding pond (i.e., between the treatment plant and the holding pond).

(6) Effluent flow shall be measured at the effluent from the holding pond to the sprayfield.

2. **Outfall 0053 Discharge Limits - Land Application at Old Overton Golf Course (1.15 MGD)**

During the period beginning on the effective date of this permit and lasting through the completion of Outfall 0054, the Permittee is authorized to discharge from Outfall 0053, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH	*****	*****	*****	*****	6.0 S.U.	9.0 S.U.	*****	E	GRAB	D	*****
Solids, Total Suspended	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
Solids, Total Suspended	REPORT lbs/day	REPORT lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Total (As N)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Ammonia Total (As N)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Nitrate Total (As N)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Kjeldahl Total (As N)	REPORT lbs/day	REPORT lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	GRAB	D	*****
Phosphorus, Total (As P)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	*****	*****	*****	*****	REPORT MGD	*****	I (See Note 5)	CONTIN	A	*****
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	*****	*****	*****	*****	REPORT MGD	*****	E (See Note 6)	CONTIN	A	*****
E. Coli	*****	*****	126 col/100mL	*****	*****	487 col/100mL	*****	E	GRAB	D	*****
BOD, Carbonaceous 05 Day, 20C	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
BOD, Carbonaceous 05 Day, 20C	REPORT lbs/day	REPORT lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	GRAB	D	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset); Part IV.F (Other Requirements for Land Application at Old Overton Golf Course)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week F - 2 days per month

B - 5 days per week G - 1 day per month

C - 3 days per week H - 1 day per quarter

D - 2 days per week J - Annual

E - 1 day per week Q - For Effluent Toxicity Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April - October)

W = Winter (November - March)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

(5) Influent flow shall be measured at the influent to the treatment plant or at the influent to the holding pond (i.e., between the treatment plant and the holding pond).

(6) Effluent flow shall be measured at the effluent from the holding pond to the golf course.

3. **Outfall 0054 Discharge Limits - Land Application at Old Overton Golf Course (1.6 MGD)**

During the period beginning on the date of completion of the facility expansion and termination date of Outfall 0053 and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0054, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH	*****	*****	*****	*****	6.0 S.U.	9.0 S.U.	*****	E	GRAB	D	*****
Solids, Total Suspended	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
Solids, Total Suspended	REPORT lbs/day	REPORT lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Total (As N)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Ammonia Total (As N)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Nitrate Total (As N)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Nitrogen, Kjeldahl Total (As N)	REPORT lbs/day	REPORT lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	GRAB	D	*****
Phosphorus, Total (As P)	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	GRAB	D	*****
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	*****	*****	*****	*****	REPORT MGD	*****	I (See Note 5)	CONTIN	A	*****
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	*****	*****	*****	*****	REPORT MGD	*****	E (See Note 6)	CONTIN	A	*****
E. Coli	*****	*****	126 col/100mL	*****	*****	487 col/100mL	*****	E	GRAB	D	*****
BOD, Carbonaceous 05 Day, 20C	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
BOD, Carbonaceous 05 Day, 20C	REPORT lbs/day	REPORT lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	GRAB	D	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset); Part IV.F (Other Requirements for Land Application at Old Overton Golf Course)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration

from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April - October)

W = Winter (November - March)

ECS = E. coli Summer (June - September)

.ECW = E. coli Winter (October - May)

(5) Influent flow shall be measured at the influent to the treatment plant or at the influent to the holding pond (i.e., between the treatment plant and the holding pond).

(6) Effluent flow shall be measured at the effluent from the holding pond to the golf course.

4. **Outfalls 006S, 007S, 008S, 009S, 010S, 011S, 012S, 013S, 014S, 015S, 016S, 017S, 018S, and 019S Discharge Limits – Storm Water[^]**

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfalls 006S, 007S, 008S, 009S, 010S, 011S, 012S, 013S, 014S, 015S, 016S, 017S, 018S, and 019S, which are described more fully in the Permittee's application as storm water outfalls located at the WWTP and sprayfield sites. Such discharges shall be limited and monitored by the Permittee as specified below:

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

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

** Monitoring Requirements

(1) Sample Location

I – Influent

E – Effluent

X – End Chlorine Contact Chamber

K – Percent Removal of the Monthly Avg. Influent Concentration

from the Monthly Avg. Effluent Concentration.

RS – Receiving Stream

(5) See Part IV.G (Storm Water Monitoring Requirements)

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB – Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April – October)

W = Winter (November – March)

ECS = E. coli Summer (June – September)

ECW = E. coli Winter (October – May)

[^]Storm water sampling and reporting for all outfalls may be accomplished by sampling the following designated outfalls: Outfall 006S, Outfall 007S, and Outfall 016S.

5. Outfall 0201 Discharge Limits - 1.15 MGD Discharge to UT to Gumsuck Branch

During the period beginning on the effective date of this permit and lasting through the completion of the facility expansion and initiation of Outfall 0202, the Permittee is authorized to discharge from Outfall 0201, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO) 00300 I 0 0	*****	*****	*****	*****	7.0 mg/l	*****	*****	E	GRAB	D	*****
pH 00400 I 0 0	*****	*****	*****	*****	6.0 S.U.	8.5 S.U.	*****	E	GRAB	D	*****
Solids, Total Suspended 00530 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
Solids, Total Suspended 00530 I 0 0	287 lbs/day	431 lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	COMP24	D	*****
Nitrogen, Ammonia Total (As N) 00610 I 0 0	19.1 lbs/day	28.7 lbs/day	2.0 mg/l	3.0 mg/l	*****	*****	*****	E	COMP24	D	*****
Nitrogen, Kjeldahl Total (As N) 00625 I 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total I Det. (As N) 00630 I 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Phosphorus, Total (As P) 00665 I 0 0	REPORT lbs/day	REPORT lbs/day	See Note (TP) mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	D	S
Phosphorus, Total (As P) 00665 I 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	D	W
Flow, In Conduit or Thru Treatment Plant 50050 I 0 0	MGD	*****	*****	*****	*****	REPORT MGD	*****	E	CONTIN	A	*****
Chlorine, Total Residual. See note (5) (6) 50060 I 0 0	*****	*****	0.011 mg/l	*****	*****	0.019 mg/l	*****	E	GRAB	D	*****
E. Coli 51040 I 0 0	*****	*****	126 col/100mL	*****	*****	487 col/100mL	*****	E	GRAB	D	ECS
E. Coli 51040 I 0 0	*****	*****	548 col/100mL	*****	*****	2507 col/100mL	*****	E	GRAB	D	ECW
BOD, Carbonaceous 05 Day, 20C 80082 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
BOD, Carbonaceous 05 Day, 20C 80082 I 0 0	95.9 lbs/day	143 lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	COMP24	D	*****
BOD, Carb-5 Day, 20 Deg C, Percent Remvl 80091 K 0 0	*****	*****	*****	*****	*****	*****	85%	K	CALCTD	G	*****
Solids, Suspended Percent Removal 81011 K 0 0	*****	*****	*****	*****	*****	*****	85%	K	CALCTD	G	*****

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

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration

from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

(4) Seasonal Limits:

S = Summer (April - October) - Growing Season

W = Winter (November - March)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

Testing, see Provision IV.E.

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

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

(TP) From April 1, 2016 through March 31, 2022 - Growing season monthly average limit = 0.2 mg/L

From April 1, 2022 forward - Growing season monthly average limit = 0.043 mg/L

For complete schedule, see Part I.E.2

6. **Outfall 0202 Discharge Limits - 1.6 MGD Discharge to UT to Gumsuck Branch**

During the period beginning on the date of completion of the facility expansion and termination date of Outfall 0201 and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0202, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO) 00300 I 0 0	*****	*****	*****	*****	7.0 mg/l	*****	*****	E	GRAB	D	*****
pH 00400 I 0 0	*****	*****	*****	*****	6.0 S.U.	8.5 S.U.	*****	E	GRAB	D	*****
Solids, Total Suspended 00530 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
Solids, Total Suspended 00530 I 0 0	400 lbs/day	600 lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	COMP24	D	*****
Nitrogen, Ammonia Total (As N) 00610 I 0 0	26.6 lbs/day	40.0 lbs/day	2.0 mg/l	3.0 mg/l	*****	*****	*****	E	COMP24	D	*****
Nitrogen, Kjeldahl Total (As N) 00625 I 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total I Det. (As N) 00630 I 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Phosphorus, Total (As P) 00665 I 0 0	REPORT lbs/day	REPORT lbs/day	See Note (TP)	REPORT mg/l	*****	*****	*****	E	COMP24	D	S
Phosphorus, Total (As P) 00665 I 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	D	W
Flow, In Conduit or Thru Treatment Plant 50050 I 0 0	REPORT MGD	*****	*****	*****	*****	REPORT MGD	*****	E	CONTIN	A	*****
Chlorine, Total Residual See note (5) (6) 50060 I 0 0	*****	*****	0.011 mg/l	*****	*****	0.019 mg/l	*****	E	GRAB	D	*****
E. Coli 51040 I 0 0	*****	*****	126 col/100mL	*****	*****	487 col/100mL	*****	E	GRAB	D	ECS
E. Coli 51040 I 0 0	*****	*****	548 col/100mL	*****	*****	2507 col/100mL	*****	E	GRAB	D	ECW
BOD, Carbonaceous 05 Day, 20C 80082 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	D	*****
BOD, Carbonaceous 05 Day, 20C 80082 I 0 0	133 lbs/day	200 lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	COMP24	D	*****
BOD, Carb-5 Day, 20 Deg C, Percent Remvl 80091 K 0 0	*****	*****	*****	*****	*****	*****	85%	K	CALCTD	G	*****
Solids, Suspended Percent Removal 81011 K 0 0	*****	*****	*****	*****	*****	*****	85%	K	CALCTD	G	*****

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

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration

RS - Receiving Stream

GRAB - Grab

CALCTD - Calculated

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April - October)

W = Winter (November - March)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

(5) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "NOD]=B or *B on the discharge monitoring reports. monthly DMR.

(6) A measurement of TRC below 0.05 mg/l shall be considered in compliance with the permit limitations above and should be reported as NOD]=B or *B on the discharge monitoring reports.

(TP) From April 1, 2016 through March 31, 2022 - Growing season monthly average limit = 0.2 mg/L

From April 1, 2022 forward - Growing season monthly average limit = 0.043 mg/L

For complete schedule, see Part I.E.2

7. Outfall 020T Discharge Limits - Toxicity

This is an administrative outfall designation. Outfall 020T is the same physical outfall as Outfall 0201 and Outfall 00202. Discharge from this outfall shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Toxicity, Ceriodaphnia Chronic 61426 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****
Toxicity, Pimephales Chronic 61428 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****

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

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April - October)

W = Winter (November - March)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

8. **Outfall STM1 Discharge Limits – Stream Monitoring (Upstream and Downstream of Outfall 0013)**

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee shall monitor upstream and downstream of Outfall 0013 land application area as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO) 00300 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Oxygen, Dissolved (DO) 00300 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
pH 00400 5 0 0	*****	*****	*****	*****	REPORT S.U.	*****	*****	US	GRAB	G	*****
pH 00400 6 0 0	*****	*****	*****	*****	REPORT S.U.	*****	*****	DS	GRAB	G	*****
Solids, Total Suspended 00530 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Solids, Total Suspended 00530 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Nitrogen, Ammonia Total (As N) 00610 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Nitrogen, Ammonia Total (As N) 00610 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Nitrogen, Kjeldahl Total (As N) 00625 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Nitrogen, Kjeldahl Total (As N) 00625 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Nitrite Plus Nitrate Total I Det. (As N) 00630 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Nitrite Plus Nitrate Total I Det. (As N) 00630 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Phosphorus, Total (As P) 00665 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Phosphorus, Total (As P) 00665 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
E. Coli 51040 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
E. Coli 51040 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
BOD, Carbonaceous 05 Day, 20C 80082 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
BOD, Carbonaceous 05 Day, 20C 80082 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****

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

** Monitoring Requirements

(1) Sample Location

I – Influent

E – Effluent

X – End Chlorine Contact Chamber

K – Percent Removal of the Monthly Avg. Influent Concentration

from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

US – Upstream of the land application site

DS – Downstream of the land application site

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB – Grab

CALC/D - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April – October)

W = Winter (November – March)

ECS = E.coli Summer (June – September)

ECW = E.coli Winter (October – May)

9. **Outfall STMS Discharge Limits - Stream Monitoring (Upstream and Downstream of Outfall 0053 and Outfall 0054)**

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee shall monitor upstream and downstream of the Outfall 0053 (or Outfall 0054, whichever is applicable) land application area as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO) 00300 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Oxygen, Dissolved (DO) 00300 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
pH 00400 5 0 0	*****	*****	*****	*****	REPORT S.U.	REPORT S.U.	*****	US	GRAB	G	*****
pH 00400 6 0 0	*****	*****	*****	*****	REPORT S.U.	REPORT S.U.	*****	DS	GRAB	G	*****
Solids, Total Suspended 00530 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Solids, Total Suspended 00530 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Nitrogen, Ammonia Total (As N) 00610 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Nitrogen, Ammonia Total (As N) 00610 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Nitrogen, Kjeldahl Total (As N) 00625 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Nitrogen, Kjeldahl Total (As N) 00625 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Nitrite Plus Nitrate Total I Det. (As N) 00630 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Nitrite Plus Nitrate Total I Det. (As N) 00630 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
Phosphorus, Total (As P) 00665 5 0 0	*****	*****	*****	*****	*****	*****	*****	US	GRAB	G	*****
Phosphorus, Total (As P) 00665 6 0 0	*****	*****	*****	*****	*****	*****	*****	DS	GRAB	G	*****
E. Coli 51040 5 0 0	*****	*****	*****	*****	*****	REPORT col/100mL	*****	US	GRAB	G	*****
E. Coli 51040 6 0 0	*****	*****	*****	*****	*****	REPORT col/100mL	*****	DS	GRAB	G	*****
BOD, Carbonaceous 05 Day, 20C 80082 5 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	US	GRAB	G	*****
BOD, Carbonaceous 05 Day, 20C 80082 6 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	DS	GRAB	G	*****

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

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

US - Upstream of the land application site

DS - Downstream of the land application site

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity Testing, see Provision IV.E.

(4) Seasonal Limits:

S = Summer (April - October)

W = Winter (November - March)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

10. **Outfall WEL1, WEL2, and WEL3 Discharge Limits – Groundwater Monitoring Wells 1, 2, and 3**

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee shall monitor at Monitoring Wells 1, 2, and 3 as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Nitrogen, Total (As N) 00600 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	R	*****
Nitrogen, Ammonia Total (As N) 00610 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	R	*****
Nitrogen, Nitrite Total (As N) 00615 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	R	*****
Nitrogen, Nitrate Total (As N) 00620 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	R	*****
Phosphorus, Total (As P) 00665 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	R	*****
Carbon, Tot Organic (TOC) 00680 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	R	*****
Methylene Blue Active Substances 47021 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	R	*****
Coliform, Fecal General 74055 1 0 0	*****	*****	*****	*****	*****	REPORT col/100mL	*****	E	GRAB	R	*****
Water Level At Samp. Collection Time 85327 1 0 0	*****	*****	*****	*****	*****	REPORT feet	*****	E	GRAB	R	*****

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

** Monitoring Requirements

(1) Sample Location

I – Influent

E – Effluent

X – End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB – Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

(4) Seasonal Limits:

S = Summer (April – October)

W = Winter (November – March)

ECS = E. coli Summer (June – September)

ECW = E. coli Winter (October – May)

Q - For Effluent Toxicity Testing, see Provision IV.B.

R – See Part IV.D.2

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

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

2. Measurement Frequency

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

- a. Seven days per week shall mean daily.
- b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.
- c. Three days per week shall mean any three days of discharge during a calendar week.
- d. Two days per week shall mean any two days of discharge during a calendar week.
- e. One day per week shall mean any day of discharge during a calendar week.
- f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.
- g. One day per month shall mean any day of discharge during the calendar month.
- h. Quarterly shall mean any day of discharge during each calendar quarter.
- i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. Test Procedures

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

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the Permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

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

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

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

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

4. Recording of Results

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

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

5. Records Retention and Production

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

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

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

7. Monitoring Equipment and Instrumentation

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

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

- a. The permittee shall conduct the required monitoring in accordance with the following schedule:
 - (1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.

- (2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e. March, June, September and December DMRs).
 - (3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e. June and December DMRs).
 - (4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.
- b. The permittee shall submit Discharge Monitoring Reports (DMRs) in accordance with the following schedule:
- (1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
- c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b. by utilizing the Department's web-based Electronic Environmental (E2) Reporting System.
- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting System (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b., unless otherwise directed by the Department.

If the E2 Reporting System is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An

attachment should be included with the E2 DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date), if applicable.

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

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

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

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

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

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

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

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

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

Alabama Department of Environmental Management

**Municipal Section, Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

Certified and Registered Mail shall be addressed to:

**Alabama Department of Environmental Management
Municipal Section, Water Division
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400**

- g. If this permit is a re-issuance, 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 Notification

- a. The Permittee must 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 report any of the above occurrences, describing the circumstances and potential effects, to the Department within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic report, the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c, 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 must 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. Form 421 must be submitted to the Director or Designee in accordance with Provisions I.C.2.a. or b. 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 not corrected by the due date of the written report, then the Permittee is to state the anticipated timeframe that is expected to transpire before the noncompliance is resolved; 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, including all steps taken to prevent 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. The Permittee shall also report notification of the noncompliance event to any other affected entity such as the public.

- e. The Permittee shall report SSO and other illicit or anomalous discharge events on Form 415 in accordance with Part I.C.2.a. This form is available on the ADEM web page or upon request from the Permittee.

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. Compliance with Total Phosphorus limits (Note: Growing season is April – October)

The Permittee shall achieve compliance with the discharge limitations for Total Phosphorus (TP) specified in Provision I. A. according to the following schedule:

April 1, 2016	Achieve compliance with TP limit of 0.2 mg/L (growing season monthly average)
July 1, 2016 July 1, 2017 July 1, 2018 July 1, 2019 July 1, 2020 July 1, 2021	Submit report describing the Permittee's progress towards achieving compliance with TP limit of 0.043 mg/L. The report should include a discussion of the projects completed to date and a schedule for any projects that remain to be completed. The following should be included in the report, where applicable: pollution abatement program and preliminary plans; final plans, specifications, and drawings; date(s) of initiation of construction; and date(s) of attainment of operational status.
April 1, 2022	Achieve compliance with TP limit of 0.043 mg/L (growing season monthly average)

3. Within 180 days from the effective date of the modification, the Permittee shall submit to the Department EPA Form 2A Part D "Supplemental Application Information: Expanded Effluent Testing Data."
4. 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, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
- b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.

- c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
- d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
- e. Nothing in this permit shall be construed to preclude or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications, or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.

2. Removed Substances

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

3. Loss or Failure of Treatment Facilities

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

4. Compliance With Statutes and Rules

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

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

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

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

2. Change in Discharge

Prior to any facility expansion, process modification or any significant change in the method of operation of the permittee's treatment works, the permittee shall provide the Director with information concerning the planned expansion, modification or change. The permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, any significant change in the method of operation of the permittee's treatment works or other actions that could result in the discharge of

additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. Transfer of Permit

This permit may not be transferred or the name of the permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. Permit Modification and Revocation

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

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

H. PROHIBITIONS

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

1. Pollutants which create a fire or explosion hazard in the treatment works;
2. Pollutants which will cause corrosive structural damage to the treatment works, or dischargers with a pH lower than 5.0 s.u., unless the works are specifically designed to accommodate such discharges;
3. Solid or viscous pollutants in amounts which will cause obstruction of flow in sewers, or other interference with the treatment works;
4. Pollutants, including oxygen demanding pollutants, released in a discharge of such volume or strength as to cause interference in the treatment works;
5. Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference or in such quantities that the temperature of the treatment plant influent exceeds 40°C (104° F) unless the treatment plant is designed to accommodate such heat;
6. Pollutants in amounts which exceed any applicable pretreatment standard under Section 307 of FWPCA or any approved revisions thereof.

PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS**A. CIVIL AND CRIMINAL LIABILITY**

1. Tampering

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

2. False Statements

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

3. Permit Enforcement

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

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

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

(2) An action for damages;

(3) An action for injunctive relief; or

(4) An action for penalties.

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

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

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

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

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

4. Relief from Liability

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

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

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

C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement

of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

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

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

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

F. COMPLIANCE WITH WATER QUALITY STANDARDS

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

G. GROUNDWATER

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater

monitoring to properly assess the degree of the problem, and the Director may require that the permittee undertake measures to abate any such discharge and/or contamination.

H. DEFINITIONS

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

22. Geometric Mean – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
23. Grab Sample – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
24. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. Industrial User – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category “Division D – Manufacturing” and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
26. MGD – means million gallons per day.
27. Monthly Average – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
28. New Discharger – means a person, owning or operating any building, structure, facility or installation:
 - a. From which there is or may be a discharge of pollutants;
 - b. From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source; and
 - c. Which has never received a final effective NPDES permit for dischargers at that site.
29. NH₃-N – means the pollutant parameter ammonia, measured as nitrogen.
30. Notifiable sanitary sewer overflow – means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - a. Reaches a surface water of the State; or
 - b. May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
31. Permit application – means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
32. Point source – means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
33. Pollutant – includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
34. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a “POTW”.
35. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
36. Receiving Stream – means the “waters” receiving a “discharge” from a “point source”.
37. Severe property damage – means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

38. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.
40. TON – means the pollutant parameter Total Organic Nitrogen.
41. TRC – means Total Residual Chlorine.
42. TSS – means the pollutant parameter Total Suspended Solids.
43. 24HC – means 24-hour composite sample, including any of the following:
 - a. The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
 - c. A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
44. Upset – means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
45. Waters – means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground, or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
46. Week – means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

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

PART IV SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability
 - a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
 - b. Provisions of Provision IV.A. do not apply to:
 - (1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.
 - (2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.
2. Submitting Information
 - a. 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.
 - b. The permittee shall give prior notice to the Director of at least 30 days of any change planned in the permittee's sludge disposal practices.
3. Reopener or Modification
 - a. Upon review of information provided by the permittee 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. PLANT CLASSIFICATION

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

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, "NODI = 9" (conditional monitoring) should be reported on the DMR forms.
2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to actual discharge to the receiving stream using one of these methods (i.e., the analytical result is less than the detection level), the Permittee shall report on the DMR form "NODI = 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. OTHER REQUIREMENTS FOR LAND APPLICATION – OUTFALL 0013

1. Flow Monitoring
 - a. Influent flow to the treatment plant or to the holding pond shall be recorded continuously. This data is subject to the records retention requirements of this permit. Summary data should be reported on the monthly DMR forms provided by the Department.
 - b. Wastewater flow to the sprayfield shall be recorded continuously. This data is subject to the records retention requirements of this permit. Summary data should be reported on the monthly DMR forms provided by the Department.
2. Groundwater Monitoring
 - a. All sprayfield groundwater monitoring wells required by the Department (including but not limited to Monitoring Wells 1 through 3) shall be monitored in accordance with Part I.A.11 of this permit.
 - b. All groundwater monitoring wells should be sampled prior to initiating any application of treated wastewater to the land application site. Groundwater sampling after commencement of land application shall be conducted during the months of **April and October**.
 - c. The Permittee must determine if there is a statistically significant increase in contaminant levels in comparison to background water quality at each well. Should groundwater monitoring reveal that the concentration of parameters listed in Part I.A.11 statistically exceed background (upgradient) concentrations; or that the concentration exceeds primary or secondary drinking water standards promulgated under ADEM Administrative Code Division 335-7; or that the concentrations exceed EPA Region 9 preliminary remediation goals, the Department may require the Permittee to revise the groundwater monitoring program to conduct a groundwater assessment and/or to implement a groundwater corrective action program.
 - d. Groundwater samples must be analyzed using EPA approved analytical methods.
 - e. The Permittee must submit an annual report in the month of **January** summarizing the collective semi-annual groundwater sampling results. The annual report should include the following:
 - (a) The nature and the extent of groundwater contamination (if any). Include contour maps showing the groundwater flow direction;
 - (b) Discussion of all analytical results;
 - (c) Discussion of concentration trends in each monitoring well;
 - (d) All potentiometric data collected during each monitoring event including top casing elevations, measured water level, total well depths, and calculated groundwater elevations;
 - (e) A potentiometric map illustrating the groundwater flow direction for each monitoring event;
 - (f) All field parameter data collected during the well purging activities;
 - (g) The specific dates that the groundwater sampling activities were conducted; and
 - (h) The report shall be prepared by and bear the signature and the license number of a licensed professional geologist or professional engineer registered in the State of Alabama.
3. Stream Monitoring Requirements

The Permittee shall sample all surface streams immediately upstream and downstream of the land application site in accordance with Part I.A.9 of this permit. Samples shall be collected at mid-channel and at a depth of 5 ft. or mid-depth, whichever is less. The sampling locations shall be approved by the Department. Results shall be reported on DMR forms provided by the Department.
4. Sprayfield Operation Requirements
 - a. Based on the information provided to the Department, the Sprayfield has a capacity to accommodate the application rate of 0.3 MGD. Wastewater shall be applied in a manner that the hydraulic capacity of the sprayfield is not exceeded.
 - b. A healthy cover crop shall be maintained at all times during land application of wastewater. If necessary, the cover crop shall be maintained by fertilization, reseeding, re-planting, etc.

- c. Best management practices erosion control measures shall be implemented to minimize soil loss.
- d. Wastewater shall not be applied to the sprayfield during periods of rain and/or high winds that may cause release of wastewater flow or any wastewater mist or residual to any off site location. Wastewater shall not be applied to the sprayfield when the ground is saturated, prior to periods of rain, when the ground is frozen or at any similar time when percolation will not readily occur.
- e. Wastewater shall not be applied to fields with a slope greater than 30% and shall not be applied within 100 feet of any creeks, drainage ways, sinkholes, and springs.
- f. All spray equipment and monitoring provisions shall be properly operated and maintained at all times to prevent leaks and spills. The equipment shall be installed so that there is no overlap of spray patterns from individual sprinklers.
- g. As a minimum, the following records shall be maintained by the permittee and will be subject to inspection by the Department:
 - (1) All information required by land application monitoring reports;
 - (2) Field, date, and time span of application and volume applied;
 - (3) Field, date, quantity, and type of fertilizer applied;
 - (4) Date and amount of rainfall; and
 - (5) Daily nitrogen loading (ppd) for each field or zone/pivot
- h. The Permittee shall not apply wastewater to areas where depth to groundwater is less than 5 feet or where land application sites are located within the 100 year floodplain.
- i. Excessive rainwater run-on must be diverted from the land application area.
- j. The following buffer zones shall be maintained along ditches, gulleys, swales, and other features that have any potential to convey storm water to an adjacent stream or sink hole:
 - (1) 100 feet from all property lines
 - (2) 100 feet from all sinkholes
 - (3) 100 feet from any perennial stream or lake
 - (4) 300 feet from public or private wells
 - (5) 300 feet from existing habitable residences
- (6) The buffer zone around sinkholes will also include terracing or another appropriate method of diversion to prevent any potential runoff from entering the area.
- k. Wastewater shall be applied in such a manner that surface run-off does not occur.

E. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

- 1. Chronic Toxicity Test
 - a. The permittee shall perform short-term chronic toxicity tests on the wastewater at Outfall 0201 and Outfall 0202.
 - b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is **100 percent** effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.
 - c. Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and test samples at the 95% confidence level indicates chronic toxicity and shall constitute noncompliance with this permit.
- 2. General Test Requirements
 - a. A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests. Samples shall be collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 (most current edition) or another control water selected by the Permittee and approved by the Department.
 - b. Test results shall be deemed unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period for the following:

- (1) For testing with *P. promelas*, effluent toxicity tests with control survival of less than 80% or if dry weight per surviving control organism is less than 0.25 mg;
 - (2) For testing with *C. dubia*, if the number of young per surviving control organism is less than 15 or if less than 60% of surviving control females produce three broods; or
 - (3) If the other requirements of the EPA Test Procedure are not met.
- c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are to be reported to the Department along with an explanation of the tests performed and the test results.
- d. Toxicity tests shall be conducted for the duration of this permit in the month of **November**. Should results from the Annual Toxicity test indicate that Outfall 001-1 exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part IV.B.4.a. In addition, the Permittee may then also be required to conduct toxicity testing in the months of FEBRUARY, MAY, AUGUST, and NOVEMBER.
3. Reporting Requirements
- a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
 - b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Sections 2 and 6 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month that tests were performed.
4. Additional Testing Requirements
- a. If chronic toxicity is indicated (i.e., noncompliance with permit limit), then the Permittee must perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date that the Permittee became aware of the permit noncompliance. The results of these follow-up tests shall be submitted to the Department no later than 28 days following the month the tests were performed.
 - b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols and guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022, and/or EPA/600/6-91/005F)
5. Test Methods
- The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The Larval Survival and Growth Test, Method 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.
6. Effluent Toxicity Testing Reports
- The following information shall be submitted with each DMR unless otherwise directed by the Department. The Department may at any times suspend or reinstate this requirement or may decrease or increase the frequency of submittals.
- a. Introduction
 - (1) Facility name, location and county
 - (2) Permit number
 - (3) Toxicity testing requirements of permit
 - (4) Name of receiving water body
 - (5) Contract laboratory information (if tests are performed under contract)
 - (a) Name of firm
 - (b) Telephone number
 - (c) Address
 - (6) Objective of test
 - b. Plant Operations

- (1) Discharge Operating schedule (if other than continuous)
 - (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)
 - (3) Design flow of treatment facility at time of sampling
- c. Source of Effluent and Dilution Water
- (1) Effluent samples
 - (a) Sampling point
 - (b) Sample collection dates and times (to include composite sample start and finish times)
 - (c) Sample collection method
 - (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (e) Lapsed time from sample collection to delivery
 - (f) Lapsed time from sample collection to test initiation
 - (g) Sample temperature when received at the laboratory
 - (2) Dilution Water
 - (a) Source
 - (b) Collection/preparation date(s) and time(s)
 - (c) Pretreatment (if applicable)
 - (d) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)
- d. Test Conditions
- (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started
 - (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Specify if aeration was needed
 - (12) Feeding frequency, amount, and type of food
 - (13) Specify if (and how) pH control measures were implemented
 - (14) Light intensity (mean)
- e. Test Organisms
- (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease(s) treatment (if applicable)
- f. Quality Assurance
- (1) Reference toxicant utilized and source
 - (2) Date and time of most recent chronic reference toxicant test(s), raw data, and current control chart(s). (The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.)
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (NOEC, IC25, etc.); report concentration-response relationship and evaluate test sensitivity
 - (5) Physical and chemical methods utilized
- g. Results
- (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method

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

h. Conclusions and Recommendations

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

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

F. OTHER REQUIREMENTS FOR LAND APPLICATION AT OLD OVERTON GOLF COURSE – OUTFALL 0053 AND OUTFALL 0054

1. Flow Monitoring

- a. Influent flow to the treatment plant or to the holding pond shall be recorded continuously. This data is subject to the records retention requirements of this permit. Summary data should be reported on the monthly DMR forms provided by the Department.
- b. Wastewater flow to the golf course shall be recorded continuously. This data is subject to the records retention requirements of this permit. Summary data should be reported on the monthly DMR forms provided by the Department.

2. Stream Monitoring Requirements

The Permittee shall sample all surface streams immediately upstream and downstream of the land application site in accordance with Part I.A.10 of this permit. Samples shall be collected at mid-channel and at a depth of 5 ft. or mid-depth, whichever is less. The sampling locations shall be approved by the Department. Results shall be reported on DMR forms provided by the Department.

3. Sprayfield Operation Requirements

- a. The application of wastewater to the golf course shall be limited to periods which will minimize public contact, such as during night time hours or times when the golf course is closed for maintenance.
- b. Wastewater shall be applied in such a manner that surface run-off does not occur.
- c. Wastewater shall not be applied to the golf course during periods of rain and/or high winds that may cause release of wastewater flow or any wastewater mist or residual to any off site location. Wastewater shall not be applied to the sprayfield when the ground is saturated, prior to periods of rain, when the ground is frozen or at any similar time when percolation will not readily occur.
- d. As a minimum, the following records shall be maintained by the permittee and will be subject to inspection by the Department:
 - (1) All information required by land application monitoring reports;
 - (2) Field, date, and time span of application and volume applied; and
 - (3) Date and amount of rainfall.
- e. All spray equipment and monitoring provisions shall be properly operated and maintained at all times to prevent leaks and spills. The equipment shall be installed so that there is no overlap of spray patterns from individual sprinklers.

G. STORM WATER MONITORING REQUIREMENTS

- 1. The permittee shall sample all storm water outfalls in accordance with Part I.A.4 of this permit. The locations of these stormwater outfalls must be approved by the Department. A grab sample shall be collected during the first thirty minutes of the discharge (or as soon thereafter as practicable).
- 2. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded and is subject to the records retention requirements of this permit.
- 3. The stormwater volume may be measured using flow measuring devices and/or estimations using a modification of the Rational Method and appropriate considerations of total depth of rainfall, size of the drainage area serving

each storm water outfall, and the estimated runoff coefficient for the drainage area. This information must be recorded as part of the sampling procedure and is also subject to the records retention requirement of this permit.

H. PLANT CLASSIFICATION

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

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 WATER DIVISION – INDUSTRIAL AND MUNICIPAL SECTIONS
NONCOMPLIANCE NOTIFICATION FORM

PERMITTEE NAME: _____ PERMIT NO: _____

FACILITY LOCATION: _____

DMR REPORTING PERIOD: _____

1. DESCRIPTION OF DISCHARGE: (Include outfall number (s))

2. DESCRIPTION OF NON-COMPLIANCE: (Attach additional pages if necessary):

LIST EFFLUENT VIOLATIONS (If applicable)			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Result Reported (Include units)	Permit Limit (Include units)
LIST MONITORING / REPORTING VIOLATIONS (If applicable)			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Monitoring / Reporting Violation (Provide description)	

3. CAUSE OF NON-COMPLIANCE (Attach additional pages if necessary):

4. PERIOD OF NONCOMPLIANCE: (Include exact date(s) and time(s) or, if not corrected, the anticipated time the noncompliance is expected to continue):

5. DESCRIPTION OF STEPS TAKEN AND/OR BEING TAKEN TO REDUCE OR ELIMINATE THE NONCOMPLYING DISCHARGE AND TO PREVENT ITS RECURRENCE (attach additional pages if necessary):

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

 NAME AND TITLE OF RESPONSIBLE OFFICIAL (type or print)

 SIGNATURE OF RESPONSIBLE OFFICIAL / DATE SIGNED



Alabama Department of Environmental Management
adem.alabama.gov

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

FACT SHEET

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

Date: November 3, 2016

Prepared By: Nicholas Caraway

NPDES Permit No. AL0067814

1. Name and Address of Applicant:

Enviro Services, L.L.C.
8000 Liberty Parkway, Suite 114
Vestavia Hills, AL 35242

2. Name and Address of Facility:

Liberty Park WRRF
13059 Liberty Parkway
Vestavia Hills, Alabama 35242

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

Waste Water Treatment Plant

4. Applicant's Receiving Waters

<u>Receiving Waters</u>	<u>Classification</u>
Groundwater	
UT to Gumsuck Branch	F&W
UT to Fleming Branch	F&W
Coal Branch	F&W
Gumsuck Branch	F&W
Cahaba River	OAW, PWS, F&W
UT to Cahaba River	F&W

For the Outfall latitude and longitude see the permit application.

5. Permit Conditions:

See attached Rationale and Draft Permit.

6. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS



a. Comment Period

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

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

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd

(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

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

b. Public Hearing

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

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd

(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

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

c. Issuance of the Permit

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

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

d. Appeal Procedures

As allowed under ADEM Admin. Code chap. 335-2-1, any person aggrieved by the Department's final administrative action may file a request for hearing to contest such action. Such requests should be received by the Environmental Management Commission within thirty days of issuance of the permit. Requests should be filed with the Commission at the following address:

Alabama Environmental Management Commission
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059

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

NPDES PERMIT RATIONALE

NPDES Permit No: **AL0067814** Date: November 3, 2016
Revised: November 15, 2016

Permit Applicant: Enviro Services, L.L.C.
8000 Liberty Parkway, Suite 114
Vestavia Hills, Alabama 35242

Location: Liberty Park WRRF
13059 Liberty Parkway
Vestavia Hills, Alabama 35242

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

Basis for Limitations: (Outfall 0201 and 00202) Water Quality Model: **DO, CBOD₅, NH₃-N**
Reissuance with no modification: **N/A**
Instream calculation at 7Q10: **100%**
Toxicity based: **TRC**
Secondary Treatment Levels: **TSS, TSS % Removal, CBOD₅ % Removal**
Other (described below): **TP, ph, E. Coli**

Design Flow in Million Gallons per Day: 1.15 MGD (Outfall Numbers 0053 and 0201)
1.6 MGD (Outfall Numbers 0014, 0054 and 0202)

Major: Yes

Description of Discharges: Outfall Number 0013: Effluent discharge to Groundwater (Sprayfield).

Outfall Numbers 0053 and 0054: Effluent discharge to Groundwater (Old Overton Golf Course).

Outfall Numbers 006S and 015S: Storm water discharges are to a UT to Gumsuck Branch, which is classified as Fish & Wildlife.

Outfall Number 007S: Storm water discharge is to a UT to Fleming Branch, which is classified as Fish & Wildlife.

Outfall Numbers 008S through 014S: Storm water discharges are to Coal Branch, which is classified as Fish & Wildlife.

Outfall Number 016S: Storm water discharge is to Gumsuck Branch, which is classified as Fish & Wildlife.

Outfall Numbers 017S and 019S: Storm water discharges are to the Cahaba River, which is classified as Outstanding Alabama Water / Public Water Supply / Fish & Wildlife.

Outfall Number 018S: Storm water discharge is to a UT to the Cahaba River, which is classified as Fish & Wildlife.

Outfall Numbers 0201 and 0202: Effluent discharge to an Unnamed Tributary to Gumsuck Branch, which is classified as a Fish & Wildlife.

Discussion:

This is a modification of an existing permit which includes a facility expansion from the previously permitted 0.7 MGD to the current design flow of 1.15 MGD. A tier for expansion to 1.6 MGD has also been added to the permit. In addition, the HCR discharge from Outfall 0031 has been removed and a continuous discharge designated as Outfall Numbers 0201 and Outfall 0202 has been added to the permit. Outfall Numbers 0011, 0012, 0051 and 0052 are not included in this permit modification as they were associated with the previous design flows of 0.7 MGD and 1.5 MGD. Outfall Numbers 0013, 0053, and 0201 are associated with the current design flow of 1.15 MGD and will be used until construction of the expansion from 1.15 to 1.6 MGD is complete. Once the expansion is complete, Outfall Numbers 0054 and 0202 will be used and the limits associated with those designations will apply. The Permittee has also requested to change the name of the facility from the Liberty Park Wastewater Treatment Plant (WWTP) to Liberty Park Water Resource & Recovery Facility (WRRF).

This facility has three options for the discharge of wastewater. Outfalls 0013 discharges to a sprayfield. Outfalls 0053 and 0054 are discharges to the Old Overton Golf Course. Outfalls 0201 and 0202 are continuous discharges to an Unnamed Tributary (UT) to Gumsuck Branch.

Outfalls 0013 (Discharge to Sprayfield):

Outfall 0013 is a discharge to a sprayfield at the current design flow of 1.15 MGD. The Permittee is planning a facility expansion from 1.15 MGD to 1.6 MGD. The hydraulic capacity of the sprayfield is 1.2 MGD. Since the sprayfield can only accommodate flows up to 1.2 MGD, a requirement that the wastewater be applied in such a manner that the hydraulic capacity of the sprayfield is not exceeded has been added to the permit.

Limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Suspended Solids (TSS), and pH are imposed at these outfalls based on best professional judgment (BPJ). The monthly average CBOD₅ and TSS limits are 45.0 mg/L and 30.0 mg/L, respectively. The daily minimum and daily maximum pH limits are 6.0 S.U. and 9.0 S.U., respectively

A monthly average Total Kjeldahl Nitrogen (TKN) limit of 20.0 mg/L is being imposed in this permit along with monitoring and reporting requirements for Total Phosphorus (TP), Total Nitrogen (TN), Total Ammonia – Nitrogen (NH₃-N), and Total Nitrate – Nitrogen (NO₃-N). These results will provide an overall indication of the total nutrient loading to the spray field and to groundwater.

E. coli limits are imposed in accordance with the Municipal Section disinfection strategy for land application facilities. The E. coli limits are 126 col/100mL (monthly average) and 487 col/100mL (daily maximum).

The monitoring frequency for most parameters is two days per week. Flows to the treatment facility and to the sprayfield are to be monitored daily.

Upstream and Downstream monitoring (STM1) of the stream adjacent to the sprayfield and Monitoring Wells WEL1, WEL2 and WEL3 will remain unchanged in this permit modification.

Outfalls 0053 and 0054 (Discharge to Old Overton Golf Course):

The limits for these outfalls are based on BPJ and are imposed in order to limit exposure since the golf course is a public access area. The monthly average limits are as follows: TSS = 30.0 mg/L, TKN = 10.0 mg/L, and CBOD₅ = 10.0 mg/L. E. coli limits of 126 col/100 mL (monthly average) and 487 col/100 mL (daily maximum) and pH limits of 6.0 S.U. (daily minimum) and 9.0 S.U. (daily maximum) are also imposed for these outfalls. The Permittee will also be required to monitor TN, NH₃-N, NO₃-N, and TP to provide an overall indication of the nutrient loading to the golf course.

The monitoring frequency for most parameters is two days per week. Flows to the treatment facility and to the golf course are to be monitored daily.

Upstream and Downstream monitoring (STM5) of the stream adjacent to the golf course will remain unchanged in this permit modification.

Outfalls 006S through 019S:

Storm water monitoring at the designated representative Outfalls 006S, 007S, and 019S will remain unchanged in this permit modification.

Outfalls 0201 and 0202:

The discharge limits for Dissolved Oxygen (DO), CBOD₅, and NH₃-N were developed by the Municipal Section based on a WLA prepared by ADEM's Water Quality Branch on February 1, 2016. The monthly average limits are: CBOD₅ = 10.0 mg/L and NH₃-N = 2.0 mg/L. The daily minimum DO limit is 7.0 mg/L.

The pH limits were developed in accordance with the water-use classification of the receiving stream. The daily minimum and daily maximum pH limits are 6.0 S.U. and 8.5 S.U., respectively. Monthly average and daily maximum Total Residual Chlorine (TRC) limits of 0.011 mg/L and 0.019 mg/L, respectively, are allowable based on the United States Environmental Protection Agency's (EPA's) recommended water quality values and on the current Toxicity Rationale, which considers available dilution in the receiving stream. In accordance with a letter dated August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes.

The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since the UT to Gumsuck Branch is classified as Fish & Wildlife, the limits for June – September are 126 col/100mL (monthly average) and 487 col/100mL (daily maximum), while the limits for October – May are 548 col/100mL (monthly average) and 2507 col/100mL (daily maximum).

This discharge is included as a point source in the Cahaba River Watershed Nutrient TMDL, which was approved by EPA in October 2006. The TMDL states that this facility must attain a growing season (April – October) TP limit of 0.043 mg/L. The Permittee will be required to achieve compliance with this TP limit in accordance with the compliance schedule provided in the permit. Based on the compliance schedule provided by the Permittee, the permit requires compliance with a growing season monthly average TP limit of 0.2 mg/L. The Department is imposing a final TMDL (TP limit of 0.043 mg/L) compliance date of April 1, 2022.

The monthly average TSS, TSS % removal, and CBOD₅ % removal limits of 30.0 mg/L, 85% and 85%, respectively, are based on 40 CFR part 133.102 regarding Secondary Treatment.

The Permittee is also required to monitor and report effluent test results for TKN and Nitrite plus Nitrate-Nitrogen (NO₂+NO₃-N). 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 additional nutrient limits on this discharge.

Chronic toxicity testing with two species (Ceriodaphnia and Pimephales) is being imposed in this permit modification. Toxicity testing is imposed for both survival and life-cycle impairment (i.e. growth and reproduction). Chronic testing at the IWC of 100 percent is required once per year during the month of August.

The Permittee's application indicated that there are no significant or categorical industrial wastewater sources contributing to this facility. The Department believes that there is no reasonable potential for this discharge to violate water quality standards. However, in order to obtain additional data, within 180 days from the issuance of this modification, the Permittee shall submit to the Department a completed EPA Form 2A Part D "Supplemental Application Information: Expanded Effluent Testing Data" so that the Department may verify there is no reasonable potential of the discharge to contribute to excursions of Alabama's in-stream water quality standards.

The frequency of monitoring for most parameters is two days per week. The frequency of monitoring for TKN and NO₂+NO₃-N is once per month. Percent removal of TSS and CBOD₅ is to be reported monthly. Flow is to be monitored continuously, seven days per week.

The UT to Gumsuck Branch is a Tier I stream and is not on the most recent EPA approved 303(d) list. The limits imposed in this permit are consistent with the Cahaba River Watershed Nutrient TMDL. This facility is also included in the Cahaba River Watershed Pathogens (E. coli) and the Cahaba River Siltation and Habitat Alteration Total Maximum Daily Loads (TMDLs), which were approved in August 2013. The pathogens limits imposed in the permit are consistent with Alabama's water quality standards and this discharge should not contribute to the pathogen impairment in the Cahaba River. The Siltation and Habitat Alteration TMDL indicates that TSS associated with WWTPs is typically comprised primarily of organic matter and is not considered to be significantly impacting the Cahaba River with respect to sediment impairment and was not included in the WLA of the TMDL.

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 Tier II waters, so the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

Revised Date: November 15, 2016

The Department has been made aware that the facility did not construct the additional 900,000 GPD sprayfield that was previously approved by the Department; therefore, the permit has been updated to reflect that the sprayfield capacity is 0.3 MGD and that the Permittee shall apply wastewater in a manner that the hydraulic capacity of the sprayfield is not exceeded.

Prepared by: Nicholas Caraway

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Liberty Park WRRF	
NPDES Permit Number:	AL0067814	
Receiving Stream:	Unnamed Tributary to Gumsuck Branch	
Facility Design Flow (Q _w):	1.150 MGD	
Receiving Stream 7Q ₁₀ :	0.000 cfs	
Receiving Stream 1Q ₁₀ :	0.000 cfs	
Winter Headwater Flow (WHF):	0.00 cfs	
Summer Temperature for CCC:	28 deg. Celsius	
Winter Temperature for CCC:	28 deg. Celsius	
Headwater Background NH ₃ -N Level:	0.11 mg/l	
Receiving Stream pH:	7.0 s.u.	
Headwater Background FC Level (summer):	N/A.	(Only applicable for facilities with diffusers.)
(winter):	N/A.	

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

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 100.00\%$$

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.

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 100.00\% \qquad \qquad \qquad \text{Effluent-Dominated, CCC Applies} \end{aligned}$$

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

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

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 2.5 \text{ mg/l NH}_3\text{-N at 7Q}_{10} \end{aligned}$$

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

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 NH₃-N limit</u>	<u>Toxicity-based NH₃-N limit</u>
Summer	2.00 mg/l NH₃-N	2.50 mg/l NH₃-N
Winter	N/A.	N/A.

Summer: The DO based limit of 2.00 mg/l NH₃-N applies.
Winter limits are not applicable.

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

The following factors trigger toxicity testing requirements:

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

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

Chronic toxicity testing is required

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{7Q_{10} + Q_w} = 100.00\%$$

Note: This number will be rounded up for toxicity testing purposes.

DISINFECTION REQUIREMENTS

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

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply)

Applicable Stream Classification: **Fish & Wildlife**

Disinfection Type: **Chlorination**

Limit calculation method: **Limits based on meeting stream standards at the point of discharge.**

	Stream Standard (colonies/100ml)	Effluent Limit (colonies/100ml)
<u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u>		
Monthly limit as monthly average (October through May):	548	548
Monthly limit as monthly average (June through September):	126	126
Daily Max (October through May):	2507	2507
Daily Max (June through September):	487	487
<u>Enterococci (applies to Coastal)</u>		
Monthly limit as geometric mean (October through May):	Not applicable	Not applicable
Monthly limit as geometric mean (June through September):	Not applicable	Not applicable
Daily Max (October through May):	Not applicable	Not applicable
Daily Max (June through September):	Not applicable	Not applicable

MAXIMUM ALLOWABLE CHLORINATION LIMITS

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

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

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

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

Prepared By: Nicholas Caraway Date: 11/1/2016

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Liberty Park WRRF	
NPDES Permit Number:	AL0067814	
Receiving Stream:	Unnamed Tributary to Gumsuck Branch	
Facility Design Flow (Q _w):	1.600 MGD	
Receiving Stream 7Q ₁₀ :	0.000 cfs	
Receiving Stream 1Q ₁₀ :	0.000 cfs	
Winter Headwater Flow (WHF):	0.00 cfs	
Summer Temperature for CCC:	28 deg. Celsius	
Winter Temperature for CCC:	28 deg. Celsius	
Headwater Background NH ₃ -N Level:	0.11 mg/l	
Receiving Stream pH:	7.0 s.u.	
Headwater Background FC Level (summer):	N./A.	(Only applicable for facilities with diffusers.)
(winter):	N./A.	

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

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 100.00\%$$

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.

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 100.00\% \qquad \qquad \qquad \text{Effluent-Dominated, CCC Applies} \end{aligned}$$

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

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

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 2.5 \text{ mg/l NH}_3\text{-N at 7Q}_{10} \end{aligned}$$

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

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 NH₃-N limit</u>	<u>Toxicity-based NH₃-N limit</u>
Summer	2.00 mg/l NH₃-N	2.50 mg/l NH₃-N
Winter	N./A.	N./A.

Summer: The DO based limit of 2.00 mg/l NH₃-N applies.

Winter limits are not applicable.

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

The following factors trigger toxicity testing requirements:

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

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

Chronic toxicity testing is required

Instream Waste Concentration (IWC) = $\frac{Q_w}{7Q_{10} + Q_w}$ = **100.00%** Note: This number will be rounded up for toxicity testing purposes.

DISINFECTION REQUIREMENTS

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

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply)

Applicable Stream Classification: **Fish & Wildlife**

Disinfection Type: **Chlorination**

Limit calculation method: **Limits based on meeting stream standards at the point of discharge.**

	Stream Standard (colonies/100ml)	Effluent Limit (colonies/100ml)
<u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u>		
Monthly limit as monthly average (October through May):	548	548
Monthly limit as monthly average (June through September):	126	126
Daily Max (October through May):	2507	2507
Daily Max (June through September):	487	487
<u>Enterococci (applies to Coastal)</u>		
Monthly limit as geometric mean (October through May):	Not applicable	Not applicable
Monthly limit as geometric mean (June through September):	Not applicable	Not applicable
Daily Max (October through May):	Not applicable	Not applicable
Daily Max (June through September):	Not applicable	Not applicable

MAXIMUM ALLOWABLE CHLORINATION LIMITS

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

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

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

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

Prepared By: Nicholas Caraway Date: 11/1/2016

Waste Load Allocation Summary

REQUEST INFORMATION

Request Number: 3241

From:	Nic Caraway	In Branch/Section	Municipal		
Date Submitted	7/21/2015	Date Required	8/20/2015	FUND Code	605
Receiving Waterbody	Gumsuck Branch UT	Date Permit application received by NPDES program			
Previous Stream Name	Gumsuck Branch				
Facility Name	Liberty Park WWTP	(Name of Discharger-WQ will use to file)			
		Previous Discharger Name			
River Basin	Cahaba	Outfall Latitude	33.47363 (decimal degrees)		
*County	Jefferson	Outfall Longitude	-86.68575 (decimal degrees)		
Permit Number	AL0067814	Permit Type	CONVERSION		
		Permit Status	Active		
		Type of Discharger	SEMI-PUBLIC/PRIVATE		

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 1.6 MGD

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

Comments included

Yes No

Information Verified By JMD

Year File Was Created 2015

Response ID Number 1489

Lat/Long Method GPS

12 Digit HUC Code 031502020104

Use Classification F&W

Site Visit Completed? Yes No

Date of Site Visit 7/24/2015

Waterbody Impaired? Yes No

Date of WLA Response 2/26/2016

Antidegradation Yes No

Approved TMDL?

Yes No

Waterbody Tier Level Tier I

Use Support Category 3

Approval Date of TMDL _____

Waste Load Allocation Information

Modeled Reach Length 105.34

Miles

Date of Allocation 2/1/2016

Name of Model Used SWQM/EPDR1V1

Allocation Type Annual

Model Completed by Jessica Delgado

Type of Model Used Calibrated / Verified

Allocation Developed by Water Quality Branch

Waste Load Allocation Summary

Annual Effluent Limits	Conventional Parameters				Other Parameters				
	Qw	MGD	Qw	MGD	Qw	1.6	MGD	Qw	MGD
	Season		Season		Season		Season		
Qw 1.6 MGD	From		From		From		From		
	Through		Through		Through		Through		
CBOD5 10 mg/L	CBOD5		CBOD5		TP	0.043	TP		
NH3-N 2 mg/L	NH3-N		NH3-N		TN		TN		
TKN	TKN		TKN		TSS		TSS		
D.O. 7 mg/L	D.O.		D.O.						

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

Water Quality Characteristics Immediately Upstream of Discharge				
Parameter	Summer		Winter	
CBODu	2	mg/l		mg/l
NH3-N	0.11	mg/l		mg/l
Temperature	28	°C		°C
pH	7	su		su

Hydrology at Discharge Location

Drainage Area Qualifier	Drainage Area		Method Used to Calculate	
	Estimated	0.039	sq mi	<5.0 sq mi - zero flow
	Stream 7Q10	0	cfs	75% of 7Q10
	Stream 1Q10	0	cfs	ADEM Estimate w/USGS Gage Data
	Stream 7Q2	0	cfs	ADEM Estimate w/USGS Gage Data
	Annual Average	0.07	cfs	

Comments and/or Notations Liberty Park currently has an HCR discharge. This WLA request and response is for a continuous discharge. Outfall location verified during site visit. The Cahaba River was included in the model reach; therefore, the Cahaba DO-EPDRIV1 was used to calculate limits. TP limit of 0.043 mg/L established by Cahaba Nutrient TMDL (2006).

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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

FORM
2A
NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

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

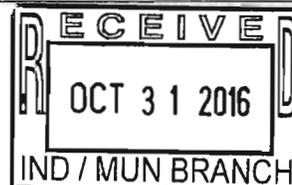
BASIC APPLICATION INFORMATION:

- A. **Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. **Additional Application Information for Applicants with a Design Flow \geq 0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. **Certification.** All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. **Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. **Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. **Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. **Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)



FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

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

A.1. Facility Information.

Facility Name Liberty Park WRRF

Mailing Address 8000 Liberty Parkway, Suite 114
Birmingham, AL 35242

Contact Person Sam G. Lowrey III

Title Vice President

Telephone Number (205) 945-6401

Facility Address (not P.O. Box) 13059 Liberty Parkway
Vestavia Hills, AL 35242

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

Applicant Name Enviro Services, LLC

Mailing Address Same

Contact Person _____

Title _____

Telephone Number () _____

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

owner operator

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

facility applicant

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

NPDES	<u>AL0067814</u>	PSD	_____
UIC	_____	Other	_____
RCRA	_____	Other	_____

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

Name	Population Served	Type of Collection System	Ownership
<u>Liberty Park WRRF</u>		<u>Separate</u>	<u>Enviro Services, LLC</u>
Total population served _____			

FACILITY NAME AND PERMIT NUMBER:
Liberty Park WRRF AL0067814

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A.5. Indian Country.

- a. Is the treatment works located in Indian Country?
 Yes No
- b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?
 Yes No

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

a.	Design flow rate <u>1.15 mgd Current/ 1.60 mgd Future</u>	Two Years Ago	Last Year	This Year
b.	Annual average daily flow rate	<u>0.730 mgd</u>	<u>0.652 mgd</u>	<u>0.610 mgd</u>
c.	Maximum daily flow rate	<u>1.740 mgd</u>	<u>1.885 mgd</u>	<u>1.431 mgd</u>

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

- Separate sanitary sewer 100 %
- Combined storm and sanitary sewer _____ %

A.8. Discharges and Other Disposal Methods.

- a. Does the treatment works discharge effluent to waters of the U.S.? Yes No
- If yes, list how many of each of the following types of discharge points the treatment works uses:
- | | | |
|------|--|----------|
| i. | Discharges of treated effluent | <u>1</u> |
| ii. | Discharges of untreated or partially treated effluent | <u>0</u> |
| iii. | Combined sewer overflow points | <u>0</u> |
| iv. | Constructed emergency overflows (prior to the headworks) | <u>0</u> |
| v. | Other <u>Land Application</u> | <u>2</u> |
- b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes No
- If yes, provide the following for each surface impoundment:
- Location: _____
- Annual average daily volume discharge to surface impoundment(s) _____ mgd
- Is discharge continuous or intermittent?
- c. Does the treatment works land-apply treated wastewater? Yes No
- If yes, provide the following for each land application site:
- Location: Sprayfield for outfall 001 and Golf Course Reuse outfall 005
- Number of acres: 67 acres @ outfall 001 and approx. 155 acres @ outfall 005
- Annual average daily volume applied to site: 0.278 (Outfall 001) & 0.326 (Outfall 005) mgd
- Is land application continuous or intermittent?
- d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works? Yes No

FACILITY NAME AND PERMIT NUMBER:

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

N/A

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

Transporter Name _____

Mailing Address _____

Contact Person _____

Title _____

Telephone Number (_____) _____

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

Name _____

Mailing Address _____

Contact Person _____

Title _____

Telephone Number (_____) _____

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

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

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

If yes, provide the following for each disposal method:

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

Annual daily volume disposed by this method: _____

Is disposal through this method continuous or intermittent?

FACILITY NAME AND PERMIT NUMBER:

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WASTEWATER DISCHARGES:

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

A.9. Description of Outfall.

- a. Outfall number 003
- b. Location Vestavia 35242
(City or town, if applicable) (Zip Code)
Jefferson Alabama
(County) (State)
33.47363 -86.68757
(Longitude) (Latitude)
- c. Distance from shore (if applicable) N/A ft.
- d. Depth below surface (if applicable) N/A ft.
- e. Average daily flow rate 1.56 mgd HCR in 2015 out of holding pond. Future flow to be less than permitted flow for direct discharge. Some days flow will discharge to Outfall 005 (Golf Course Irrigation) and possibly Outfall 001 (Sprayfield)
- f. Does this outfall have either an intermittent or a periodic discharge? Yes No (go to A.9.g.)
If yes, provide the following information:
Number of times per year discharge occurs: 280 days on average
Average duration of each discharge: 24 Hrs
Average flow per discharge: <1.15 mgd
Months in which discharge occurs: 12 months
- g. Is outfall equipped with a diffuser? Yes No

A.10. Description of Receiving Waters.

- a. Name of receiving water Gumsuck Branch UT
- b. Name of watershed (if known) Cahaba River Basin
United States Soil Conservation Service 14-digit watershed code (if known): _____
- c. Name of State Management/River Basin (if known): _____
United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____
- d. Critical low flow of receiving stream (if applicable)
acute _____ cfs chronic _____ cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): _____ mg/l of CaCO₃

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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A.11. Description of Treatment

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

Primary Secondary

Advanced Other. Describe: **Extended Aeration & SBR, Chemical Precipitation for TP removal w/Filtration**

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

Design BOD5 removal or Design CBOD5 removal **>85** %

Design SS removal **>85** %

Design P removal **0.2** %

Design N removal **N/A** %

Other _____ %

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

UV Disinfection system

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

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

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

Outfall number: **003**

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	6.6	s.u.			
pH (Maximum)	8.14	s.u.			
Flow Rate (currently HCR)	2.9	mgd	1.6	mgd	17
Temperature (Winter)	N/A				
Temperature (Summer)	N/A				

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

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS

BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD5						
	CBOD5	9	mg/l	1.56	mg/l	17	5210B <1
FECAL COLIFORM (ecoli data)	200	#/100 ml	15	#/100ml	17	EPA Method 1603 <1	
TOTAL SUSPENDED SOLIDS (TSS)	19.5	mg/l	5	mg/l	17	2540D <1	

END OF PART A.

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

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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BASIC APPLICATION INFORMATION

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

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

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

N/A gpd

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

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

- a. The area surrounding the treatment plant, including all unit processes.
- b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- c. Each well where wastewater from the treatment plant is injected underground.
- d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within $\frac{1}{4}$ mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
- e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
- f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where the hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

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

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

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

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

Name: SWWC Services, Inc.

Mailing Address: 728 Volare Drive
Birmingham, AL 35244

Telephone Number: (205) 987-8352

Responsibilities of Contractor: Contract Operation Of Facility; Provide Certified Operator

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

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

N/A

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

Yes No

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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

N/A

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

Implementation Stage	Schedule	Actual Completion
	MM/DD/YYYY	MM/DD/YYYY
- Begin Construction	<u> / / </u>	<u> / / </u>
- End Construction	<u> / / </u>	<u> / / </u>
- Begin Discharge	<u> / / </u>	<u> / / </u>
- Attain Operational Level	<u> / / </u>	<u> / / </u>

e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Yes No

Describe briefly: _____

B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).

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

Outfall Number: 003

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS							
AMMONIA (as N)	2	mg/l	0.19	mg/l	17	SM4500NH3D	0.01
CHLORINE (TOTAL RESIDUAL, TRC)							
DISSOLVED OXYGEN	14.8	mg/l	9.54	mg/l	17	Hach Method 10360	0.1
TOTAL KJELDAHL NITROGEN (TKN)	2.08	mg/l	0.724	mg/l	17	SM4500-Norg C	0.1
NITRATE PLUS NITRITE NITROGEN	21.5	mg/l	6	mg/l	17	SM4500NO3D	0.1
OIL and GREASE							
PHOSPHORUS (Total)	0.325	mg/l	0.3	mg/l	17	SM4500-P,B,E	0.01
TOTAL DISSOLVED SOLIDS (TDS)							
OTHER							

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

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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BASIC APPLICATION INFORMATION

PART C. CERTIFICATION

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

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

Basic Application Information packet

Supplemental Application Information packet:

Part D (Expanded Effluent Testing Data)

Part E (Toxicity Testing: Biomonitoring Data)

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

Part G (Combined Sewer Systems)

ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.

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

Name and official title Shawn E. Arterburn - Manager

Signature 

Telephone number (205) 945-6459

Date signed _____

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

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

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

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

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

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		

METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.

ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO3)											

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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

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

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples			
VOLATILE ORGANIC COMPOUNDS												
ACROLEIN												
ACRYLONITRILE												
BENZENE												
BROMOFORM												
CARBON TETRACHLORIDE												
COLORBENZENE												
CHLOROBIBROMOMETHANE												
CHLOROETHANE												
2-CHLOROETHYL VINYL ETHER												
CHOLOROFORM												
DICHLOROBROMOMETHANE												
1,1-DICHLOROETHANE												
TRANS-1,2-DICHLOROETHYLENE												
1,1-DICHLOROPROPANE												
ETHYLBENZENE												
METHYL BROMIDE												
METHYL CHLORIDE												
METHYLENE CHLORIDE												
1,1,2,2-TETRACHLOROETHANE												
TETRACHLOROETHYLENE												
TOLUENE												

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

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

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

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples			
1,1,1-TRICHLOROETHANE												
1,1,2-TRICHLOROETHANE												
TRICHLOROETHYLENE												
VINYL CHLORIDE												

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

--	--	--	--	--	--	--	--	--	--	--	--	--

ACID-EXTRACTABLE COMPOUNDS

P-CHLORO-M-CRESOL												
2-CHLOROPHENOL												
2,4-DIMETHYLPHENOL												
4,6-DINITRO-O-CRESOL												
2,4-DINITROPHENOL												
2-NITROPHENOL												
4-NITROPHENOL												
PENTA CHLOROPHENOL												
PHENOL												
2,4,6-TRICHLORO PHENOL												

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

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BASE-NEUTRAL COMPOUNDS

ACENAPHTHENE												
ACENAPHTYLENE												
ANTHRACENE												
BENZIDINE												
BENZO(A) ANTHRACENE												
BENZO(A)PYRENE												

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

Form Approved 1/14/99
OMB Number 2040-0088

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

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples			
3,4 BENZO-FLUORANTHENE												
BENZO(GH)PERYLENE												
BENZO(K)FLUORANTHENE												
BIS (2-CHLOROETHOXY) METHANE												
BIS (2-CHLOROETHYL)-ETHER												
BIS (2-CHLOROISOPROPYL) ETHER												
BIS (2-ETHYLHEXYL) PHTHALATE												
4-BROMOPHENYL PHENYL ETHER												
BUTYL BENZYL PHTHALATE												
2-CHLORO NAPHTHALENE												
4-CHLORPHENYL PHENYL ETHER												
CHRYSENE												
DI-N-BUTYL PHTHALATE												
DI-N-OCTYL PHTHALATE												
DIBENZO(A,H) ANTHRACENE												
1,2-DICHLORO BENZENE												
1,3-DICHLORO BENZENE												
1,4-DICHLORO BENZENE												
3,3-DICHLORO BENZIDINE												
DIETHYL PHTHALATE												
DIMETHYL PHTHALATE												
2,4-DINITROTOLUENE												
2,6-DINITROTOLUENE												
1,2-DIPHENYLHYDRAZINE												

FACILITY NAME AND PERMIT NUMBER:

Liberty Park WRRF AL0067814

Form Approved 1/14/99
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Outfall number: _____ (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples			
FLUORANTHENE												
FLUORENE												
HEXACHLORO BENZENE												
HEXACHLOROBUT ADIENE												
HEXACHLOROCYCLO-PENTADIENE												
HEXA CHLOROETHANE												
INDENO(1,2,3-CD) PYRENE												
ISOPHORONE												
NAPHTHALENE												
NITROBENZENE												
N-NITROSODI-N-PROPYLAMINE												
N-NITROSODI-METHYLAMINE												
N-NITROSODI-PHENYLAMINE												
PHENANTHRENE												
PYRENE												
1,2,4-TRICHLOROBENZENE												

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

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Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

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

FACILITY NAME AND PERMIT NUMBER:

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SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

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

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

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

E.1. Required Tests.

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

chronic acute

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

Test number: _____ Test number: _____ Test number: _____

a. Test information.

Test Species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			

b. Give toxicity test methods followed.

Manual title			
Edition number and year of publication			
Page number(s)			

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite			
Grab			

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each.)

Before disinfection			
After disinfection			
After dechlorination			

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Test number: _____		Test number: _____		Test number: _____	
e. Describe the point in the treatment process at which the sample was collected.					
Sample was collected:					
f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both					
Chronic toxicity					
Acute toxicity					
g. Provide the type of test performed.					
Static					
Static-renewal					
Flow-through					
h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.					
Laboratory water					
Receiving water					
i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.					
Fresh water					
Salt water					
j. Give the percentage effluent used for all concentrations in the test series.					
k. Parameters measured during the test. (State whether parameter meets test method specifications)					
pH					
Salinity					
Temperature					
Ammonia					
Dissolved oxygen					
l. Test Results.					
Acute:					
Percent survival in 100% effluent		%		%	%
LC ₅₀					
95% C.I.		%		%	%
Control percent survival		%		%	%
Other (describe)					

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Chronic:

NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

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

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

Yes No

If yes, describe: _____

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

Date submitted: ____/____/____ (MM/DD/YYYY)

Summary of results: (see instructions)

NOT INCLUDED FOR THIS PERMIT MODIFICATION

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

FACILITY NAME AND PERMIT NUMBER:

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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

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

GENERAL INFORMATION:

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

Yes No

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

a. Number of non-categorical SIUs. _____

b. Number of CIUs. _____

SIGNIFICANT INDUSTRIAL USER INFORMATION::

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

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

Name: _____

Mailing Address: _____

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

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

Principal product(s): _____

Raw material(s): _____

F.6. **Flow Rate.**

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

_____ gpd (_____ continuous or _____ intermittent)

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

_____ gpd (_____ continuous or _____ intermittent)

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

a. Local limits Yes No

b. Categorical pretreatment standards Yes No

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

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

Yes No If yes, describe each episode.

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

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?

Yes No (go to F.12)

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

Truck Rail Dedicated Pipe

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

<u>EPA Hazardous Waste Number</u>	<u>Amount</u>	<u>Units</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

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

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

Yes (complete F.13 through F.15.) No

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

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

F.15. Waste Treatment.

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

Yes No

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

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

Continuous Intermittent If intermittent, describe discharge schedule.

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

FACILITY NAME AND PERMIT NUMBER:

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SUPPLEMENTAL APPLICATION INFORMATION

PART G. COMBINED SEWER SYSTEMS

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

- G.1. System Map.** Provide a map indicating the following: (may be included with Basic Application Information)
- a. All CSO discharge points.
 - b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
 - c. Waters that support threatened and endangered species potentially affected by CSOs.
- G.2. System Diagram.** Provide a diagram, either in the map provided in G.1 or on a separate drawing, of the combined sewer collection system that includes the following information.
- a. Location of major sewer trunk lines, both combined and separate sanitary.
 - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
 - c. Locations of in-line and off-line storage structures.
 - d. Locations of flow-regulating devices.
 - e. Locations of pump stations.

CSO OUTFALLS:

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

G.3 Description of Outfall.

- a. Outfall number _____
- b. Location _____
(city or town, if applicable) (Zip Code) _____

(County) (State) _____

(Latitude) (Longitude) _____
- c. Distance from shore (if applicable) _____ ft.
- d. Depth below surface (if applicable) _____ ft.
- e. Which of the following were monitored during the last year for this CSO?
 Rainfall CSO pollutant concentrations CSO frequency
 CSO flow volume Receiving water quality
- f. How many storm events were monitored during the last year? _____

G.4. CSO Events.

- a. Give the number of CSO events in the last year.
_____ events (actual or approx.)
- b. Give the average duration per CSO event.
_____ hours (actual or approx.)

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- c. Give the average volume per CSO event.
_____ million gallons (actual or approx.)
- d. Give the minimum rainfall that caused a CSO event in the last year
_____ Inches of rainfall

G.5. Description of Receiving Waters.

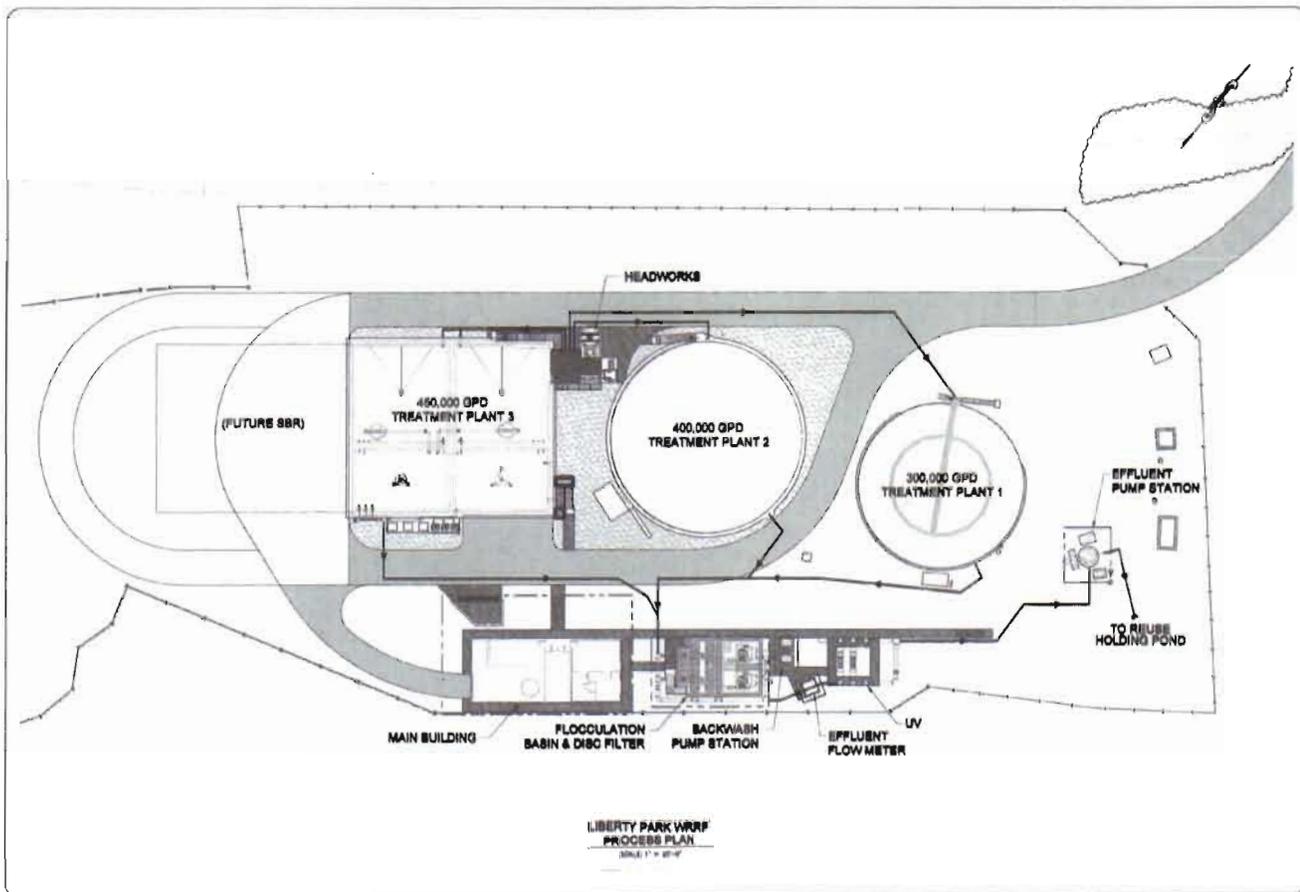
- a. Name of receiving water: _____
- b. Name of watershed/river/stream system: _____
United State Soil Conservation Service 14-digit watershed code (if known): _____
- c. Name of State Management/River Basin: _____
United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____

G.6. CSO Operations.

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

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

Additional information, if provided, will appear on the following pages.



DATE	DESCRIPTION



**ENGINEERS
OF THE SOUTH**

ENVIRONMENTAL SERVICES, LLC
WESTMINSTER, MISSISSIPPI, USA
**LIBERTY PARK WRRF
IMPROVEMENTS**

WORKSHEET

JOB NO: LP-1210
DATE: MAY 2018
DESIGNED BY: CSB
DRAWN BY: CSB
SCALE: AS NOTED
SHEET NUMBER **1**



NO.	DATE	REVISIONS



ENVIRO SERVICES, LLC
 WESTFORD, N.H. 03081
LIBERTY PARK WRRF IMPROVEMENTS

PROJECT POINT

JOB NO: LP-13-G
 DATE: MAY 2016
 DESIGNED BY: CDS
 DRAWN BY: CDS
 SCALE: NTS
 SHEET NUMBER **2**

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

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

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

PURPOSE OF THIS APPLICATION

- | | |
|--|---|
| <input type="checkbox"/> INITIAL PERMIT APPLICATION FOR NEW FACILITY | <input type="checkbox"/> INITIAL PERMIT APPLICATION FOR EXISTING FACILITY |
| <input checked="" type="checkbox"/> MODIFICATION OF EXISTING PERMIT | <input type="checkbox"/> REISSUANCE OF EXISTING PERMIT |
| <input type="checkbox"/> REVOCATION & REISSUANCE OF EXISTING PERMIT | |

SECTION A – GENERAL INFORMATION

1. Facility Name: Liberty Park Water Resource Recovery Facility (WRRF)
- a. Operator Name: SWWC Services, Inc.
- b. Is the operator identified in 1.a, the owner of the facility? Yes No
If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.
SWWC Services, Inc., 728 Volare Drive, Birmingham AL 35244; Contract Operations
- c. Name of Permittee* if different than Operator: Enviro Services, LLC
**Permittee will be responsible for compliance with the conditions of the permit*
2. NPDES Permit Number: AL 0067814 (Not applicable if initial permit application)
3. Facility Location: (Attach a map with location marked; street, route no. or other specific identifier)
Street: 13059 Liberty Parkway
City: Vestavia Hills County: Jefferson State: AL Zip: 35242
Facility (Front Gate) Location: Latitude (Deg Min Sec): 33°28'29.6"N Longitude (Deg. Min Sec): 86°41'18.0"W
4. Facility Mailing Address (Street or Post Office Box): 8000 Liberty Parkway, Suite 114
City: Vestavia Hills County: Jefferson State: AL Zip: 35242
5. Responsible Official (as described on page 6 of this application):
Name and Title: Shawn E. Arterburn
Address: 8000 Liberty Parkway, Suite 114
City: Vestavia Hills State: AL Zip: 35242
Phone Number: 205-945-6459
Email Address: (Optional): _____

6. Designated Facility/DMR Contact:

Name and Title: Shawn E. Arterburn

Phone Number: 205-945-6459

DMR Email Address (Optional – for receipt of blank DMR Forms): _____

7. Designated Emergency Contact:

Name and Title: Shawn E. Arterburn

Phone Number: 205-945-6459

Email Address (Required): sarterburn@libertypark.com

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

a) Proprietor:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

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

<u>Permit Name</u>	<u>Permit Number</u>	<u>Held by</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

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

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
Liberty Park WWTP	AL0067814	Warning Letter	4/30/2014
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SECTION B – WASTEWATER DISCHARGE INFORMATION

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

Outfall Number	Highest in Last 12 Months MGD	Highest Daily Flow MGD	Average Flow MGD
001	0.391	0.548	0.282
003	2.189	3.0	1.172
005	0.811	1.265	0.316

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

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

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

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

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

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

SECTION C – WASTE STORAGE AND DISPOSAL INFORMATION

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

Description of Waste	Description of Storage Location
<hr/>	<hr/>
<hr/>	<hr/>

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

Description of Waste	Quantity (lbs/day)	Disposal Method*
Dewatered Sludge	500 (Dry)	Meeks hauls to Landfill

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

SECTION D – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

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

Company Name	Description of Industrial Wastewater	Existing or Proposed	Flow (MGD)	Subject to SID Permit? Y/N
N/A				

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance? Yes No
 If so, please attach a copy of the ordinance.

SECTION E – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?
 Yes No If yes, then complete items A through M below:

	YES	NO
A. Does the project require new construction?	<input type="checkbox"/>	<input type="checkbox"/>
B. Will the project be a source of new air emissions?	<input type="checkbox"/>	<input type="checkbox"/>
C. Does the project involve dredging and/or filling of a wetland area or water way?	<input type="checkbox"/>	<input type="checkbox"/>
Has the Corps of Engineers (COE) permit been issued?	<input type="checkbox"/>	<input type="checkbox"/>
Corps Project Number _____		
D. Does the project involve wetlands and/or submersed grassbeds?	<input type="checkbox"/>	<input type="checkbox"/>
E. Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs)	<input type="checkbox"/>	<input type="checkbox"/>
F. Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)?	<input type="checkbox"/>	<input type="checkbox"/>
G. Does the project involve mitigation of shoreline or coastal area erosion?	<input type="checkbox"/>	<input type="checkbox"/>
H. Does the project involve construction on beaches or dunes areas?	<input type="checkbox"/>	<input type="checkbox"/>
I. Will the project interfere with public access to coastal waters?	<input type="checkbox"/>	<input type="checkbox"/>
J. Does the project lie within the 100-year floodplain?	<input type="checkbox"/>	<input type="checkbox"/>
K. Does the project involve the registration, sale, use, or application of pesticides?	<input type="checkbox"/>	<input type="checkbox"/>
L. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?	<input type="checkbox"/>	<input type="checkbox"/>
M. 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

It is the applicant’s responsibility to demonstrate the social and economic importance of the proposed activity, if subject to antidegradation requirements. In accordance with 40 CFR 131.12 and Section 335-6-10-.04 of the Alabama Department of Environmental Management Administrative Code, the following information must be provided, if applicable. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? Yes No
 If “yes”, complete question 2 below. If “no”, do not complete this section.

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

If “no” and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete questions A through F below, ADEM Form 311-Alternatives Analysis, and either ADEM Form 312 or ADEM Form 313- Calculation of Total Annualized Project Costs (Public-Sector or Private-Sector Projects, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever is applicable, must be provided for **each** treatment discharge alternative considered technically viable. ADEM forms can be found on the Department’s website at www.adem.alabama.gov/DeptForms. If “yes”, do not complete this section.

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

- A. What environmental or public health problem will the discharger be correcting?
- B. Explain if and to what degree the discharger will be increasing employment as a result of the proposed discharge, either at its existing facility or as the result of the start-up of a related new facility or industry.
- C. Explain if and to what degree the discharge will prevent employment reductions?
- D. Describe any additional state or local taxes that the prospective discharger will be paying.
- E. Describe any public service the discharger will be providing to the community.
- F. Describe the economic or social benefit the discharger will be providing to the community.

SECTION G – EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required from a municipal facility depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department’s website at www.adem.alabama.gov/programs/water. The required ADEM and EPA forms are summarized in Attachment 1.

SECTION H– ENGINEERING REPORT/BMP PLAN REQUIREMENTS

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

SECTION I– RECEIVING WATERS

Receiving Water(s)	303(d) Segment? (Y / N)	Included in TMDL?*
UT Gumsuck Branch in Cahaba River Basin	Y	Y

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

SECTION J – APPLICATION CERTIFICATION

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

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY 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 FURTHER CERTIFY UNDER PENALTY OF LAW THAT THE RESULTS OF ANY ANALYSES REPORTED AS LESS THAN DETECTABLE IN THIS APPLICATION OR IN ATTACHMENTS THERETO WERE PERFORMED USING THE EPA APPROVED TEST METHOD HAVING THE LOWEST DETECTION LIMIT READILY ACHIEVABLE FOR THE SUBSTANCE TESTED."

SIGNATURE OF RESPONSIBLE OFFICIAL:



DATE SIGNED:

11.3.2016

(TYPE OR PRINT)

NAME OF RESPONSIBLE OFFICIAL:

Shawn E. Arterburn

OFFICIAL TITLE OF RESPONSIBLE OFFICIAL:

Manager

MAILING ADDRESS:

8000 Liberty Parkway, Suite 114

AREA CODE & PHONE NUMBER:

205-945-6459

SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS

Responsible official is defined as follows:

1. In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility
2. In the case of a partnership, by a general partner
3. In the case of a sole proprietorship, by the proprietor, or
4. In the case of a municipal, state, federal, or other public facility, by either a principal executive officer, or a ranking elected official.
5. In the case of a private or semi-public facility, the responsible official is either a principal executive officer or the owner of the corporation or other entity.

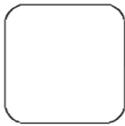
Attachment 1 to Supplementary Information Form

**NPDES PROGRAM
PERMIT APPLICATION FORMS
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

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

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

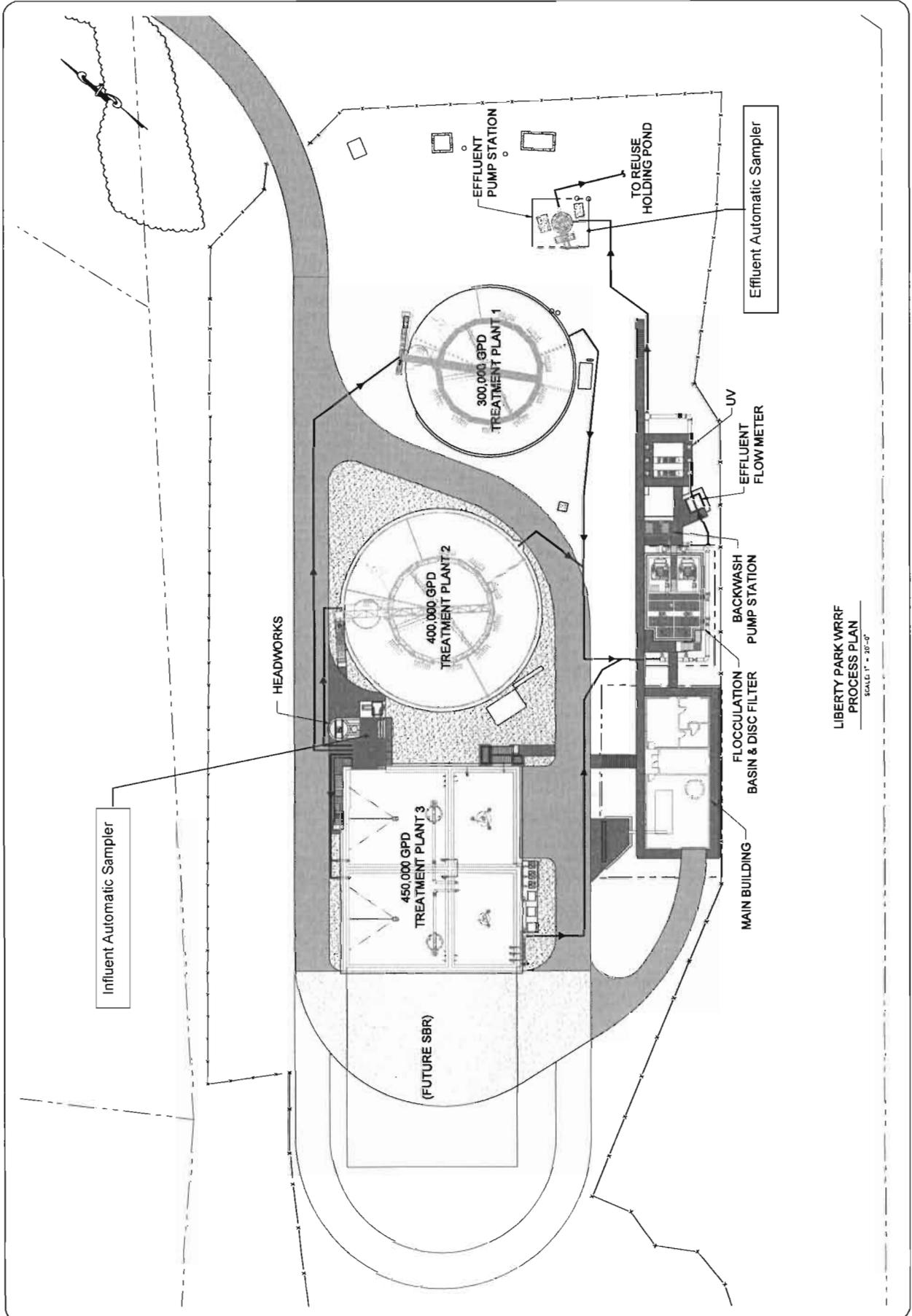
NO.	DATE	DESCRIPTION	REASONS



ENVIRO SERVICES, LLC
 VESTAVIA HILLS, AL
 LIBERTY PARK WRRF
 IMPROVEMENTS

APDES PERMIT

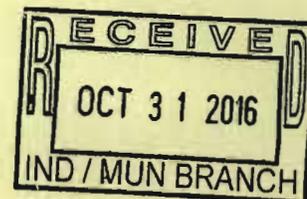
JOB NO: LP-1310
DATE: MAY 2016
DESIGNED BY: CDS
DRAWN BY: CDS
SCALE: AS NOTED
DWG:
SHEET NUMBER 1



LIBERTY PARK WRRF
 PROCESS PLAN
 SCALE: 1" = 20'-0"

June 14, 2016

Nicholas Caraway
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, AL 36130-1463



RE: Permit Modification Request per WLA Modeling for Direct Discharge to Outfall 0031
Liberty Park Water Resource Recovery Facility (WRRF)
NPDES Permit AL0067814

Dear Mr. Caraway,

Earlier this year ADEM completed its desktop model for a direct discharge to Outfall 0031 pursuant to our request, and provided us a copy of the Waste Load Allocation (WLA) Summary (Request #3241) attached hereto for reference.

Enviro, along with its contract operator of the system, SWWC Services, Inc. has reviewed the results of that modeling, and Enviro hereby request a permit modification.

Accordingly, Included herewith is NPDES Form 2A along with a check in the amount of \$7,060 payable to ADEM.

Key permit items we believe should be reviewed and modified include the following:

1. Adjust the current plant capacity to 1.15 MGD with the future flow capacity of 1.6 MGD. The existing treatment facility including various discharge locations is shown on the attached map/schematic.

Additionally, we request the nomenclature for this highly advanced treatment facility be changed from "WWTP" to "WRRF" to more appropriately reflect the valuable resource recovered and reused at this facility. The acronym "WRRF" stands for Water Resource & Recovery Facility which such term has been widely accepted and sanctioned by the Water Environment Federation.

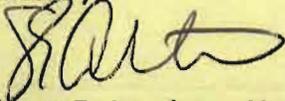
2. Location coordinates for Outfall 0031 for per ADEM (Jessica Delgado) are reflected in the WLA as Latitude 33.47363, Longitude -86.68575.
3. Remove the HCR description for Outfall 0031.

4. Revise the Outfall 0031 limits as reflected in the WLA Summary which generally includes the following limits:
 - a. CBOD5 10 mg/l
 - b. NH3-N 2 mg/l
 - c. D.O. 7 mg/l
 - d. TP 0.043 mg/l (April 1, 2022)
5. Add an Outfall 0032 with appropriate limits and conditions for the future facility capacity of 1.6 MGD.
6. Maintain the current TMDL compliance schedule for the 0.043 mg/l deadline of April 1, 2022 as currently imposed in the permit unless ADEM's adaptive management efforts prior to the deadline allow for an adjustment in time or concentration.
7. Outfalls 0011, 0012, 0051 and 0052 should reflect current and future capacities of 1.15 MGD and 1.6 MGD respectively.
8. All other outfall monitoring sites remain unchanged.
9. Modify Part IE.3 on Page 19 of 36 to reflect future expansion to 1.6 MGD. Since the facility was only expanded to 1.15 MGD, Enviro has not initiated the "Expanded Effluent Testing Data", but is amenable to perform the testing within 365 days from date of issuance of this permit modification.
10. Omit Part IV.E Hydrograph Control Release Requirements – Outfall 0031.
11. Omit the Cahaba River Stream Flow DMR worksheet.
12. Update the permit rationale as appropriate.

It is still the intent of Enviro to retain Outfall 0011 (land application sprayfield) and Outfall 0051 (Golf Course Irrigation) during the remaining period of this permitting cycle and utilize these outfalls as needed.

Should you have any questions or comments regarding this request, please feel free to contact me or Mr. Chandler.

Sincerely,



Shawn E. Arterburn, Manager
Enviro Services LLC